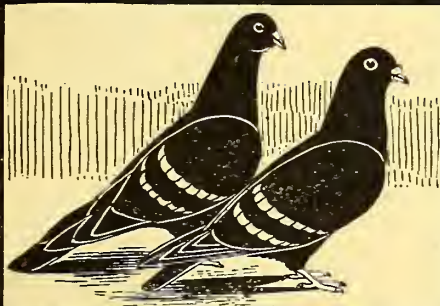


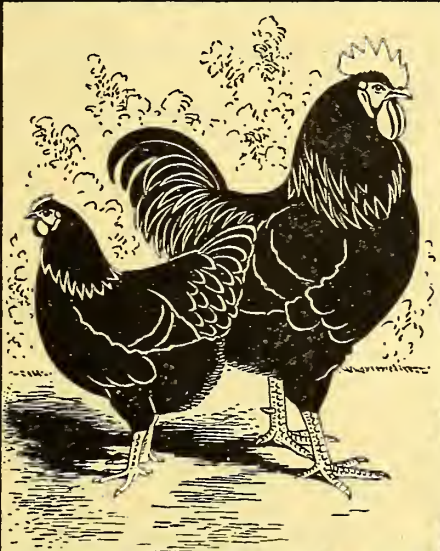
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The Feather



PIGEONS



POULTRY

WASHINGTON, D. C.

Vol. IV. OCTOBER, 1898. No. 1.

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WE Believe that 1898 will be the best year the poultry fraternity ever saw. We know that breeding and exhibition stock has sold well all Winter. We think more eggs for hatching will change hands this Spring than ever before. We are sure more lice will make their appearance. We shall put more Lambert's Death to Lice on the market. We will guarantee it to do more good work than any other insecticide.

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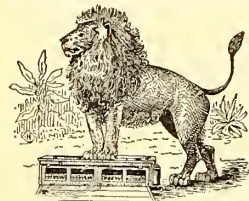
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Of the two, the MONARCH INCUBATOR is the better, because it is a practical, successful machine, and one that will give greater satisfaction than any other on the market.

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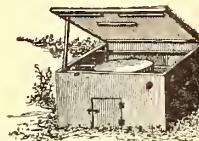
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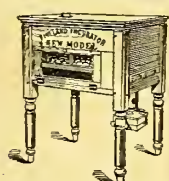
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None can Sell at Lower Prices as they have not the Birds.

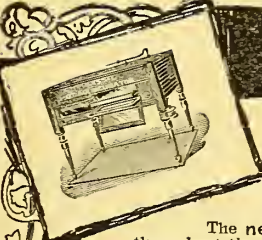

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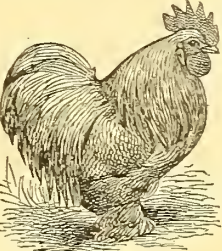
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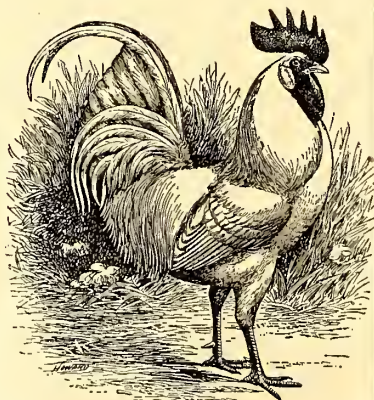
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1,000 Choice Birds For Sale.

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These birds are without question the best lot ever offered from my yard, and whether in need of either cockerels, pairs, trios, or any sized breeding pens you will make no mistake by investing in this The World's Greatest Laying Strain of S. C. White Leghorns.

Can furnish cockerels and hens not related, and either cockerels or hens not related to any former stock sent out from my yards. When convenient for them to do so, I shall be pleased to have intending purchasers visit my yards and examine stock before buying.

When writing for prices please state as near as possible the number and quality of birds wanted. Prices the very lowest, quality of stock considered, and special inducements offered to early buyers.

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Fawn Grove, Penn....



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Cock, at N. Y., '98.

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Buff Wyandottes.**

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at which you can afford to carry them over.

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BACHE'S Buff Leghorns Win Everywhere.

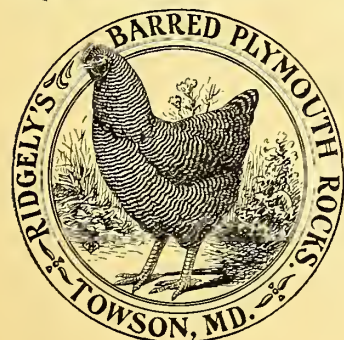
Washington, D. C., Dec. 7-11, 1897—Pen 1; cockerel 1, 3, and 5; pullet 1, 4, and 5; 2 Specials; 8 Entries. Hartford, Conn., Jan. 10-13, 1898—Pen 1; cock 1; hen 1, 2, and 3; cockerel 2 and 3; pullet 2 and 5; 9 prizes on eleven entries. New York, Feb. 1-5, 1898—Cockerel 1; hen 5; pens 3 and 5. Also Hagerstown, Md., Trenton, N. J., Reading, Pa., and Plainfield, N. J.

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Box C, Bound Brook, N. J.

Eggs for balance of
season, \$2 per 13.

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In addition to our other winnings in 1898, in competition with the cream of the United States, we won at the great Washington show, 1st on hen; also at Madison Square Garden, New York, 1st on hen. Well! We have simply won on hens from Maryland to New York, and might add that we stepped on somebody's toes from Massachusetts. We also won at New York, 2d on cock; a hot one that made the boys hunt the best that could be had to beat him; and 5th on pen, if the cockerel in the pen had not met with an accident to his comb, as old Uncle Jim would say, "Boss, what would that pen have done!"

Winners were all Bred and Owned by us.

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Three grand pens Barred Rocks. I paid \$100 for two males that will be in these yards, and \$75 for 5 females. I bought these for new blood. Eggs, \$3 per 13 straight.

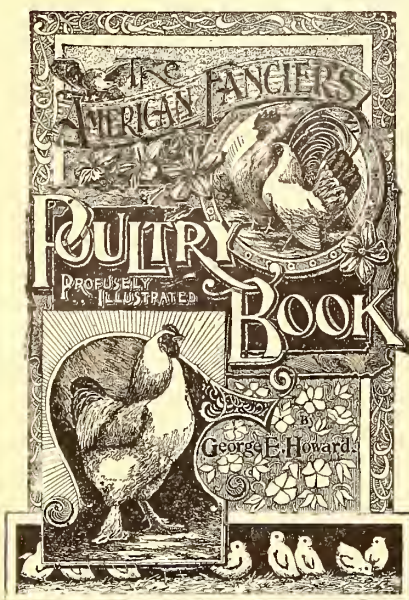
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Three grand pens S. C. B. Minorcas absolutely black no trace of white anywhere, and no females weighing less than 6½ lbs. and some weighing 8 lbs.; all long, deep-bodied birds. Two males to be used in these yards I imported at a cost of \$75 for the pair, besides express charges. Eggs, \$2.50 per 13 straight.

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The Feather

A National Journal Devoted to Poultry, Pigeons, Birds, Etc.

VOL. IV. No. 1.

WASHINGTON, D. C., OCTOBER, 1898.

FIVE CENTS.

MANAGEMENT OF GEESE.

Place Suitable for Goose Pastures—Simple Houses for Shelter—Their Laying and Hatching Qualities—The Breeding Season—Feeding and Dressing for Market—Cross Breeding.

Farmers' Bulletin No. 64.

GOOSE raising is not so extensively engaged in as duck raising, the conditions under which they can be successfully raised being almost entirely different from those necessary for successful duck raising. The duck, being

smaller, can be raised in a more limited space than can the goose, the latter needing free range and water,

while the former has been proved to do equally as well without water. While the goose can not profitably be raised in as large numbers as the duck, still it can not justly be termed unprofitable. There are many places on a farm that are worthless for cultivation that could be

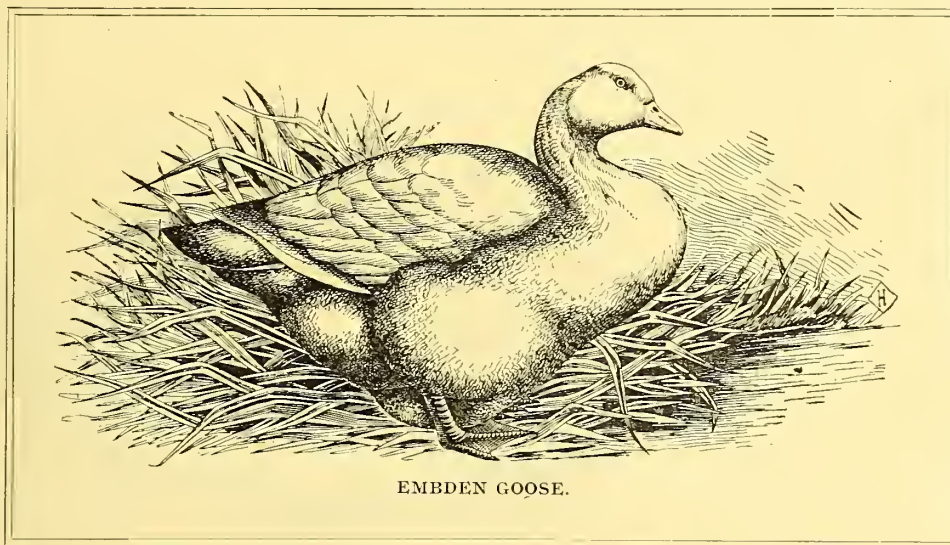
utilized with excellent results for goose raising. Fields that have streams, branches, or unused springs on them could be turned to good advantage by making them into goose pastures. Many farmers are profiting by this and adding to their incomes annually. The care and attention necessary for raising geese are very small when compared with the returns, and the cost of food is also proportionately small in comparison with the cost of food used for other birds bred for market. A goose on range will gather the largest portion of its food, consisting of grasses, insects, and other animal

and vegetable matter to be found in the fields and brooks.

The simplest kinds of houses are used for shelter; these should be built after the plans of those given for ducks, but should be proportionately of larger size to accommodate comfortably the number of birds to be kept. Geese are long-lived birds, some having been known to attain the age of forty years, while birds of fifteen and twenty years of age are not uncommon. They retain their laying and hatching qualities through life. Ganders should not be kept for breeding after three years of age; young ganders are more active and insure greater fertility of the eggs than old ones do; besides, ganders become more quarrelsome as age advances.

The feathers of geese are an important source of revenue and find a ready sale in the markets. A goose

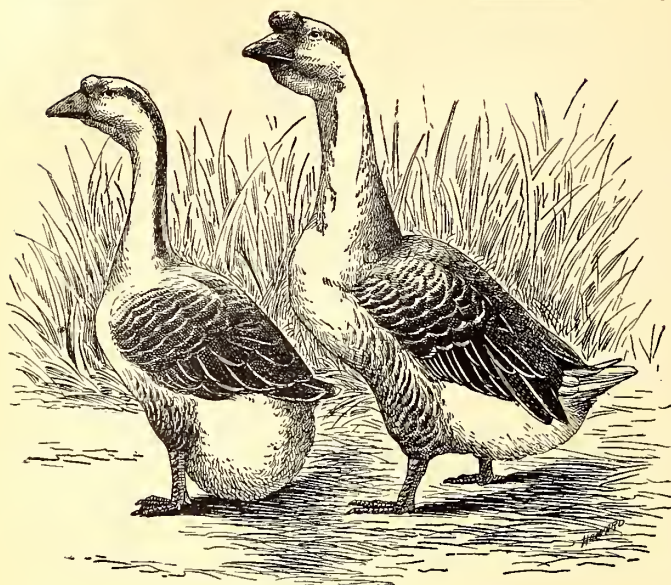
will average about one pound of feathers a year. The feathers should be plucked when there is no blood in the ends of the quills; this can be readily ascertained, as they will then leave the flesh without hard pulling. Almost all breeds of geese are good sitters



EMBDEN GOOSE.

and attentive mothers, and if left to themselves will make their nests, much as when wild, and hatch a large percentage of their eggs. But hens are now more frequently used for hatching goose eggs; as by taking the eggs from the goose when laid and giving them to hens to hatch, the goose will lay a greater number of eggs than if she were permitted to sit.

All breeds of geese, except perhaps the Egyptian, are to be recommended to farmers who keep a limited number in addition to other poultry and allow them the freedom of the farm, but when goose raising is to



BROWN CHINESE GEESSE.

be more extensively engaged in, the African Goose is to be especially commended. It is the quickest to mature, most prolific, and the easiest to handle of any of the varieties.

In breeding African Geese, mate two geese to one gander, and it will be still better if pairs are used to secure better fertility of the eggs. Those who contemplate raising geese should secure their stock in the fall, so that the birds may become accustomed to the place before the breeding season begins. The breeding stock should be at least two years old, and fully matured birds. When stock is purchased in the fall they should be turned out in a pasture, and no other food than what they gather themselves will be needed until the grass goes down. Their rations should then consist of equal parts by measure, bran, middlings, and corn meal, with five per cent of this bulk of beef scraps. They should be given a light feed of this ration in the morning, and at night they should be fed cracked corn. Ten per cent of the bulk of the daily ration should be green foods, steamed clover, and cooked vegetables.

The breeding season begins about February 1, though some geese will begin laying as early as December, then stop, and begin again the first of February. They make their own nests from the straw and litter on the floor of their houses, and will lay from twelve to twenty eggs before becoming broody. As soon as the goose shows an inclination to sit, remove her and place her in a dark box or small coop, and keep her there for two or three days with water for drink, but no food. Then she may be placed back in the yards and she will begin another laying of eggs. The first and second layings of eggs should be set under hens. After the goose lays the second laying she should be confined again, when she will lay a third laying. When she has laid the third laying she should be permitted to sit on them, instead of giving them to hens. A goose will lay from ten to fifteen eggs in each of the second and third layings.

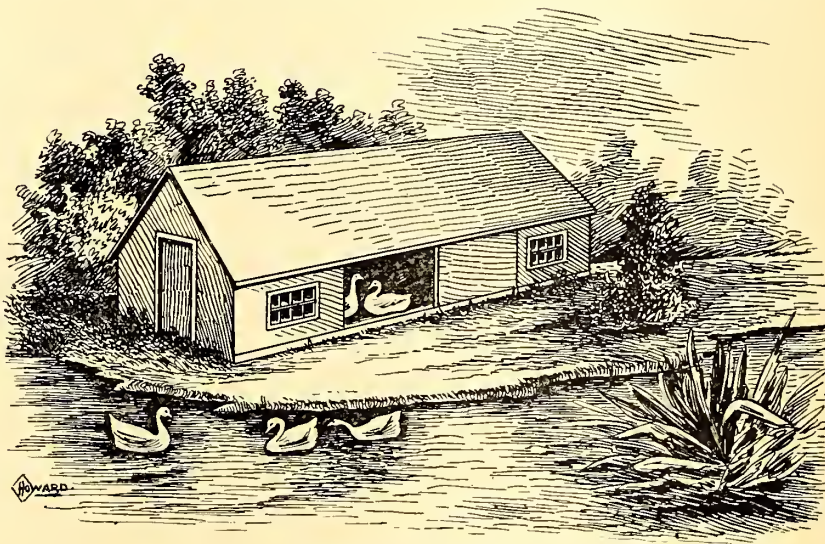
It is recommended that after the eggs have been sat

upon for twenty-five days, that they be taken from the nest and placed for about one minute in water heated to a temperature of 104 degrees. Thirty days are required for incubation. After the eggs have hatched leave the hen and goslings in the nest for twenty-four hours; after the young have become thoroughly dry remove hen and brood and pen them in a large, roomy coop for four or five days. When the goslings have reached this age—four or five days—they are perfectly able to take care of themselves. The hen should then be taken from the goslings, which should be allowed freedom to roam at will, but they should always be cooped up at night.

The first feed for goslings is grass, fed on sod; a small allowance of corn meal, slightly moistened, is also given them. Sand and charcoal are sometimes mixed with the corn meal. They are fed on the above food three times a day for a couple of days, when they are given a ration composed of equal parts by measure, bran, middlings, and steamed cut clover or cooked vegetables. This feed is given them morning, noon, and night, until they are eight weeks old, when they are penned to be fattened for market at ten weeks old.

To fatten young geese, place them in a pen, not too large, so that they will not exercise too much, and feed three times a day all they will eat up clean of the following: Corn meal mixed to a dry crumbly state, and beef scraps amounting to twenty per cent of the bulk of the corn meal. While fattening young geese they should be kept as quiet as possible; no excitement whatever should disturb them. When feeding approach them quietly, and do not irritate them in the least or they will not fatten, but will "throw out" or grow another crop of feathers. At ten weeks of age, or when the tips of the wings reach the tail, they are ready for market and should weigh between eight and ten pounds.

When young goslings are to be dressed for market they are killed by cutting them in the roof of the



HOUSE FOR GEESSE.

mouth, severing the artery, or by stunning them by hitting them a sharp, quick blow on the head. The picker uses a box in front of him about the height of the knees, holding the bird with the left hand and clasping the feet and wings together; he places the head of the bird against the box and holds it in place with the knee. Pick the feathers from the body of the bird, then dampen the right hand and brush the body

to remove the down. Leave about two inches of feathers on the neck, and also leave feathers on the wings at the first joint. Lay the wings against the body of the bird and tie a string around to hold in position. Place the birds, when picked, in cold water for an hour or so to plump them; if they are in the water too long they are liable to bleach and become water-soaked. They are then iced up in barrels ready to ship to market.

Young geese should be marketed in October. It is best to market all possible before cold weather sets in. It is much harder to dress a gosling in cold weather. The feathers set tighter, and in picking them the flesh is torn.

The most satisfactory results are to be had by breeding pure standard-bred stock without crossing. But to those who are partial to crosses the following are considered the best to make: (1) Wild gander on African goose; (2) Embden gander on Toulouse goose; (3) Embden gander on African goose; and (4) Embden gander on White China goose. These crosses will give good growth and the young birds will dress well for market. Crosses should only be made for market purposes, and should always be bred from original stock.

Chicken Chatter.

Sunflower seed is splendid for fowls during molt—it adds lustre to the plumage.

Do not crowd the fowls in their winter quarters; it is better to give too much, rather than too little room.

Pullets are commencing to lay; good, comfortable houses and substantial feeding will keep them at it all through winter.

Use board floors in all your houses; dirt floors are dangerous and cause many complaints that could be easily avoided.

The litter on the floors of the house and scratching-shed should be knee-deep, and all grain should be scattered in it. Don't be afraid of the grain being wasted, the fowls will find each tiny kernel.

Give a variety of food. Animal and vegetable feed should be regularly fed from now on. Try feeding the mash in the evening instead of morning and you will have better results. The fowls must be kept in exercise during the day.

Fresh green bone is considered by many a perfect food for hens. Some farmers buy fresh meat all through the summer and have more or less fresh bone that could be profitably ground for the poultry if they had a mill. The butcher who drives his wagon to your door will also supply you plenty of bones at small cost.

If the flock is kept confined the food must include meat or scraps; wheat and barley are good grain, but a variety should be given, and a good way to do this is to mix several kinds and let them pick out what they want. Hens are early risers and want to be fed as soon as they come down from the roost. See that they are well supplied with clean water and a box of ashes or dry earth to dust themselves in. To keep off lice, soak the roosts with kerosene, and with a garden syringe throw hot limewash all over the inside of the building.

A Deserved Success.

THE FEATHER completes its third volume with the September issue. It well deserves its success. In typographical appearance it is a beauty, and its merit is conspicuous.—*American Poultry Journal*.

POCKET-MONEY POULTRY.

Preparing for Exhibition—Making Sales at Home and Abroad—Inbreeding is Dangerous—New Blood Necessary for Vigor—Keeping Gates Shut—Room is Necessary—Fowls and Chicks Should be Kept Separate—Fencing for Chickens.

Confinement or Freedom?

BY MYRA V. NORYS.

YOU may have birds that are quite well worth exhibiting, but you do not know enough about them yet; and knowledge gained in the show room, while good, is expensive. Why should you waste money and time, and bring criticism upon yourself in studying things publicly, which you might study privately at less expense?

During the Winter following your first season of raising chicks you will have abundant time to study advertising, if you want a wide market, or to study systematic sales near home, if your market is to be there. If you are to make your business as wide as possible, you must study exhibiting, and preparing for exhibition. Poultry literature will tell you something about all these, and will give you a good foundation on which to build a fabric of common sense. You can begin to study advertising by taking up any paper, and noting which advertisements attract the eye quickest, and when you have found this out, note how the wording of the matter attracts you. See whether words are wasted in saying things that do not affect you either way when you pose as a buyer. Ask some man his opinion of these advertisements; this will help you to find out whether it is the attitude of the womanly mind, or the way the facts are put which makes them catch your attention. Study the advertisements of women who are in the business, and see whether they are hurting themselves and their trade by asking sympathy because they are women, rather than seeking sales because they have good stock. There is too much of this posing for sympathy; though not so much, I am glad to say, in the poultry business as in some other lines of work which women have lately taken up. Your neighbors must be studied, you know; because, even if you make sales abroad, you will want to sell all you can near by. You must first impress upon them firmly that you are not in the exchange business; and you must learn not to sell fertile eggs to the grocery, lest the woman two doors away outwit you, and become a rival, at a cost of only fifteen cents a dozen. Yet, if you have plenty of stock, you must learn to make concessions to your home trade, selling to near customers, perhaps, at half-price. You can generally afford to do this, for advertising, shipping baskets, packing, and time necessary to manage the distant trade, have all a distinct money value. This refers, however, more to coming seasons, for you must remember that you have not yet bred anything. Before your second season, you must become pretty familiar with the science of breeding, as far as books and experts may give it to you. You will learn that while inbreeding is considered a necessity to fine feather, it is a dangerous one, and new blood is even a greater necessity to the best vigor. It is Scylla and Charybdis; the rock of inbreeding, on one hand, the rock of losing family characteristics on the other. You will learn that those who have the best success, inbreed all they dare, and when they must change, try to get

blood from the same family line, but which has been changed by climate or conditions sufficiently to answer for fresh blood. You will learn that some consider fresh blood a necessity every year, and you must learn that vigor is the one thing above all others essential to success. Fine feathers never appear on sickly birds, and condition, alone, counts enough to win the prize many times.

And, alas, that it must be said! among the hardest part of your work will be learning to keep the gates shut; learning to make the fences high enough, and secure enough that the care of weeks and months shall not be thrown away in five minutes! If a man goes near your poultry plant, he must be taught to shut the gates! If the children help you, as so often they must, it must be impressed upon them with care, again and again and again, that they are never to leave the gates open! The first few months of fancy poultry keeping, though holding many pleasures, are, likewise, somewhat harassing; and, small as it is, this matter of the gates is one of the chief reasons why you would better not attempt to advertise eggs during the first year or two. Surely you need to get the run of the business before hampering yourself too much with other peoples' ideas and expectations, and with their just demands after they have paid you hard cash, and their unjust demands if they think you are to be easily cheated. It is not a way wholly strewn with posies, this road to the beautiful land of fancy poultrydom.

CONFINEMENT, OR FREEDOM?

The first, and the continuous thought of those who would make a success of poultry rearing and keeping, must be for the vigor of the birds. It is such a common thing for those who discuss poultry to speak of vigor as necessary, that I think readers have come to consider it merely a stock assertion for effect. No greater mistake could be made. You will find that the person who has been longest in the poultry business is the one who will urge this point most strongly. If you do not believe it now, the work itself will force you to believe it. Nothing could be more foolish than for those who are extremely limited as to room to try to make that room count for more than it is worth by enlarging operations to any extent. For a regular business, a reasonable amount of room is a necessity; sufficient, at least, for the proper rearing of the young stock. I believe it to be utterly impossible to rear chicks to vigorous maturity in large numbers, throughout successive seasons, and in close confinement. Please note the three points, and that I do not say to keep fowls, but "to rear chicks." And I mean chicks of vigorous constitution.

Almost any woman who lives on a farm knows that the question of confinement or freedom is a serious one, even there, where there is abundance of room. Neither the chicks in the garden, nor the garden in the chicks, seems to be thoroughly satisfactory. It may be argued that small chicks are a benefit to the garden, on account of the insects which they destroy. That is true as far as it goes; but, unfortunately, the chick goes farther, and with a little age, becomes a destructive terror, beside which insects are nowhere! The amount of stuff which even a small flock of chickens will destroy by mere daily trampling, if they do not scratch at all, is almost incredible. There is always friction, too, concerning the grain fields; and whatever the woman may think about it, on the general farm, scarcely a man lives who will not insist that the chicks and fowls destroy more than they eat, and eat more than they are worth. Suppose, instead of confinement or

freedom, we say confinement *with* freedom. A large enclosure, a grassy orchard, if possible, where fowls can range to a distance which satisfies them, may be enclosed, yet the birds will still have virtual freedom. One portion of this may be for the fowls, another for the youngchicks. The greatest mistake which a novice friend of my own, has made—a man who has been extremely careful to follow the best instruction—was in placing his young chicks in the same enclosure with his fowls, and that in a limited space. I went to take him an order for some of his chicks, (which were from very fine, fancy stock) and found that they had been so stunted in rearing as to be virtually ruined, so that I did not even hint that I had an order for him.

If questions of space call for serious consideration on the farm, what is the case where room is limited? Simply that difficulties increase, not only in inverse ratio to the space, but in very much greater ratio. It is much more difficult to keep clean, more difficult to provide the absolutely necessary room, more difficult to furnish the green food equally necessary. Indeed, we might well say that it is impossible to furnish growing green food in very close confinement, except for the youngest stock. By having a system of double yards, or a few movable netting hurdles, a certain amount of green food can be had growing, but it is an endless, and apparently thankless task to provide it; for the fowls swarm upon it like locusts, and leave a bare expanse in about as short a time. Once more, let me say that it is not wise to try to raise large flocks in small spaces. Even if there be a fair measure of success for two or three years, while the ground is comparatively fresh, disease and disaster are almost sure to fall upon the flocks later. Confinement is so absolutely distasteful to almost all fowls that they will fret even at a bit of wire netting above them, though they could have the widest range under it. Even if they have seemed comfortable and happy in confinement, their almost wild glee, their jumping and flirting and stretching upon regaining liberty show clearly that they have felt the confinement, and that it must tell on them.

Not a few, nowadays, are urging that fowls often do better—that is, that they lay more eggs—with moderate range than with free range. Confinement is a necessity, too, for the breeding stock during the breeding season, unless one be quite distant from neighbors, keeping but one breed. I have known fowls to mix and migrate from one farm to another, when the buildings were nearly a quarter of a mile apart. Unless the poultry have things all their own way, each breed on a place by itself, and without limitations as to range, a stock of wire netting becomes one of the most treasured necessities of the poultry keeper. Wire netting is now almost as cheap as laths, while it is often much more convenient. Wherever there are marauders, like cats or hawks, covered runs of netting for the tiny chicks render them absolutely safe. Fifty feet of wire net, inch meshed, and two feet wide, at roll prices, will cost one dollar. Nineteen feet of two-inch mesh net, six feet wide, to be used overhead will cost about forty-seven cents, at roll prices. This will make a run sufficient for forty or fifty chicks for the first three weeks, at least, or for two smaller flocks. It may be asked, "Why not use the one-foot width for the sides? or the three-inch mesh for the cover, because it is cheaper?" The answer is—Because the chicks are less happy with the cover so low and close, until they have freed themselves by jumping through the meshes, which they will surely learn to do in a week or ten days' time.

(To be continued.)

UPLANDS POULTRY FARM.

The Most Elaborate Poultry Plant in the Country—Description of the Buildings—Management of the Work—The Birds Bred Here and Their Long List of Winnings.

Fine Buildings and Fine Birds.

THE most elaborate poultry plant in the country is that of Mrs. Robert Garrett near Baltimore. This plant is located on her vast estates and money has not been spared in the making of its architectural beauty and environments.

It is a beautiful place and one can not but feel that the scene is inspiring. Everything is so nicely arranged and perfectly kept, that it may be termed an ideal place. Limitless fields of well-kept lawns completely surround the plant, and large, towering, commanding oaks, shrubbery, palms, evergreens, and rare plants are to be seen on every hand. The arrangement is in accordance with Mrs. Garrett's ideas; her ambition was to keep chickens as none others kept them, and in this we believe she has succeeded. These fine things are not necessary for raising fine poultry, but still, fine poultry can be raised as successfully with them as without them. This is demonstrated by the many fine specimens that were seen there during our recent visit.

The Uplands Poultry Farm has been established for about five years. The farm comprises unlimited acres and many fine buildings. The main building is shown in the illustration, and the various other buildings and coops are in the rear and do not show in the picture. The main building is 260 feet long and 18 feet wide, with three towers. This building is used as a breeding and brooding-house, having twenty-four pens for

breeding birds and nine sectional brooders. The material used in this building is the very best, and the interior is finished in natural wood, oiled and varnished. The sides and ceiling have a satiny appearance and are very rich in effect. A passage-way extends throughout the entire length of the building and the floor is concreted. Attention is given the birds from this passage-way. The floors of the pens are of earth and sand, and each pen has a large window, giving ample light and sunshine. The building is perfectly ventilated and heated during the coldest weather. It is a palace for hens. The lower floor of the central tower is used as an office, where all business of the plant is transacted. The upper floor is the watchman's room and bed-chamber. The upper floors of the two end towers are used as pigeon lofts. The partitions of the pens, as well as the fences are made of woven wire, specially designed for Mrs. Garrett. Mesh wire is not used in any part of the building. The yards are 60 feet in length. There are numerous other buildings on the plant of lesser magnificence, but each serves its purpose and does it well. The incubator-house is directly in the rear of the main building, and is built of brick, with concrete floor. Prairie State Incubators are used for hatching. Brood-coops are scattered all over a field used exclusively for young chicks. The Hoff Patent coop is used here to good advantage.

The exclusive management of this extensive and beautiful plant is vested in Mr. M. E. Phelps. Mr. Phelps is one of the best-known poultrymen in the East, and has been breeding fine poultry without interruption since 1878. He is thoroughly acquainted with his work, and knows the ins and outs of the business to a marked degree. What's more, he is in love with chickens, he lives with them, as it were, and knows their every want. It is his delight to be with them, talk of them, and dream of them. It is his business and he knows it well. Since he has been at Uplands he



MAIN BUILDING UPLANDS POULTRY FARM.

has done remarkably good work, and we candidly say that the birds were never so healthy, and houses so well kept as they are now under his supervision. Uplands is a beautiful place, but a man of ability must superintend the flocks; fine buildings are well enough but they can not grow fine birds. Mr. Phelps' work at Uplands has given good results and the chickens never looked finer than they do this year.

Mr. Phelps is breeding at Uplands this season, Barred Plymouth Rocks, White Wyandottes, Partridge Cochins, and Light Brahmas. These four varieties constitute his line of breeders. Of these, the Rocks and Wyandottes are his especial favorites. They are his old loves, and he will point to the bars on this bird, and the shape of that bird, with genuine enthusiasm. It might be mentioned here that he is a judge of no mean experience and has been in the aisles on numerous occasions, and his ambition now is to once more

wear the "duster" and look knowingly among his confreres. He has raised about 1,000 birds this season, besides a large number of broilers. Among these birds are some very fine specimens which will, no doubt, make their record in the show-room as have their predecessors. Since Mr. Phelps has been at Uplands he has made a splendid record for the place. His first show was at Wash-

ington, in 1896, where he made a small entry and won first pullet and first pen on White Wyandottes; first cock and first hen on Partridge Cochins. The following season, 1897, he began at Mt. Gretna, Pa., with the following results: Second cockerel and third pen on Barred Plymouth Rocks; third hen, second pen, White Wyandottes; first and second cocks, first and second hens, first cockerel, first and second pullets, Partridge Cochins; and second hen on Light Brahmas. At Rockville, Md., in 1897, he won: First pullet and first pen, on Barred Plymouth rocks; first cock, first and second hens, first cockerel, second pullet, and first pen, White Wyandottes; first cock, second hen, second cockerel, and second pullet, Partridge Cochins; second hen, first cockerel, first pullet, and first pen, on Light Brahmas.

The following month at Hagerstown, Md., he won:

First and fourth pullets, and fourth pen, on Barred Rocks; first hen and second pen, White Wyandottes; third cock, first and second hens, and second pullet, Partridge Cochins; third hen, fourth pullet, and fourth pen, on Light Brahmas. At the last Washington show, in the strongest competition he won: Second and fourth pullets, and fifth pen, on his Barred Rocks; fourth hen, second and fourth cockerels, and second pen, on White Wyandottes; second cock, second and fourth pullets, on Partridge Cochins.

At Asheville, N. C., last January he made his greatest record of any show. His success was similar to A. C. Hawkins' record at Washington. Mr. Phelps won at Asheville: First, second, third, fourth, and fifth cockerels, first, second, third, and fifth pullets, first pen, (fourteen pens competing) on Barred Plymouth Rocks; first cock, first, second, third, and fourth hens, first, second, third, and fourth cockerels, first, second,

third, and fourth pullets, first and second pens, on White Wyandottes; second cock and second pullet, Partridge Cochins; second cockerel, first, second, and third pullets, and first pen, on Light Brahmas. At Mt. Gretna, Pa., last August, he won: Third cock, first hen, third pullet, and first pen, on White Wyandottes; second cock, fourth hen, second and third cockerels, first and second pullets,

Partridge Cochins; first and third cocks, and third hen, on Light Brahmas.

Last month at Rockville, Md., his birds won the following: First and second cocks, first hen, first and second cockerels, first and second pullets, first and second pens, on Barred Rocks; first cock, first and second hens, first and second cockerels, first and second pullets, first and second pens, White Wyandottes; first hen, first and second cockerels, second pullet, Partridge Cochins; first cock, first hen, first and second pullets, and first pen, on Light Brahmas.

An Interesting Picture.

The illustration, "Group of Southern Breeders," is a very interesting picture. The photo from which our half-tone was made, was taken at Asheville, N. C., January 7, 1898, during the show. Every one of them



A GROUP OF SOUTHERN BREEDERS.

M. E. PHELPS. C. M. STINEMETZ. W. F. RANDOLPH. F. E. HEGE.
L. F. VERDERY. R. L. SIMMONS. DR. S. T. LEA. DR. W. C. CLECKLEY. JAS. P. KERR.
R. REID HARDING. E. C. CONNORS. W. H. BRAY. CHIC. DARLINGTON.

is a breeder and fancier of fine poultry, and their names are well known to the readers of *THE FEATHER*. This is the first time the cut has been published, and we are pleased to give our readers the opportunity of seeing the pictures of such enthusiastic and representative breeders. It will be noticed that all hold in their arms a product of their skill, excepting Judge Hege, and he, apparently, is quite happy he is there, even if he has not a representative of the feathered race under his protection.

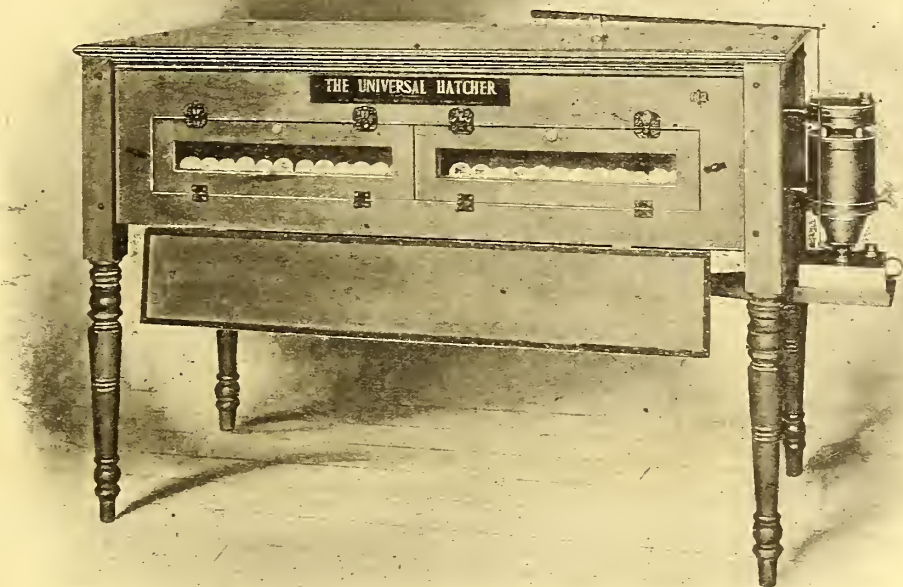
The Universal Hatcher.

About fourteen years ago Mr. E. W. Andrews began manufacturing the Universal Hatcher, at Elmira, N. Y. This machine was the result of many years' study by the inventor, before he placed it on the market. It proved a success from the start. The Universal Hatcher is no experiment, but a well-proved invention of much practical worth. It is a popular and well-established machine, and is used successfully by numbers of poultrymen. Many improvements have been made since the first Universal Hatcher was produced, but all such improvements have advanced the value of the machine each time. Mr. Andrews is a wide-awake man, and when he finds a good, practical suggestion he works it out, and if beneficial adopts it without hesitation. The new Hatcher is reliable and up to date in every detail.

The Universal Hatchers and Brooders are built with care, only the best materials being used. The cases are double and every practical improvement known to modern incubator construction has been introduced in the Universal. Mr. Andrews personally superintends the manufacture of these machines. The regulator used by the Universal differs from any others. It is a composition bar which acts by expansion and contraction, and is placed in the incubator directly over the eggs, thus getting the exact temperature of the eggs. This bar is connected to one single lever on top of the incubator, which controls the heat, turning it on and off as required to keep a uniform temperature in the egg-chamber. The regulator can be set to regulate the heat to any degree desired, by one single set screw on the outside of the incubator. The lever on top and all connections to the lamp are made entirely of brass and highly polished. It can never get out of order and will last a lifetime. The composition bar is placed in the incubator entirely different from that of any other manufactured, and is as sensitive and accurate as a

thermometer. The eggs can never be overheated. The regulator is operated uniformly with changes in temperature, and not opened and closed suddenly. It is simple in construction, durable beyond question. It is complete and guaranteed to work as represented.

The heating of the Universal is done by means of a boiler which is placed on the outside of the machine. This boiler is connected to a radiator; by this means the water is kept in constant and rapid circulation and an equalized heat maintained in all parts of the egg-chamber. The boiler, radiator, and all parts containing water are made from the best grade of copper and can never rust or wear out. Moisture in an incubator is a very important feature. The moisture in the Universal is supplied from the hot water in the boiler and can be increased or diminished at will. In ventilating the Universal, entirely new principles are adopted. It is obtained by a constant supply of pure, warm air, without a draught touching the eggs. The air enters the incubator, and is warmed before passing into the egg-chamber. The amount of air allowed to enter the machine is entirely under the control of the operator.



THE UNIVERSAL HATCHER, 216-EGG SIZE.
Manufactured by E. W. ANDREWS & Co., Elmira, N. Y.

The Universal has been extremely successful in the show-room, winning first premium wherever shown. It has a very fine record, and the readers of *THE FEATHER* should send for one of the fine catalogues of these machines. Address the Universal Hatcher, Box 2, Elmira, New York.

Among Their Choice List.

J. A. Bennett & Sons., Gouverneur, New York, manufacturers of the Champion Brooder, say: "In regard to results obtained from our ad in *THE FEATHER*, we can say that we are very well pleased with the same, and consider it among our choice list. We shall always carry an ad in the same."

Advertisers in the *THE FEATHER* are known to have good results. See testimonials.

The Feather, Washington, D. C.

Published the 15th of each Month by
GEORGE E. HOWARD & CO.

Subscription 50 cents a Year in Advance.
Foreign Subscriptions, 75c a year in Advance.
Single Copies 5 cents.

GEORGE E. HOWARD, Editor.

All matter intended for publication should reach us by the first of the month preceding the issue in which the same is to appear.

Write your name in full, giving full post office address plainly, so there will be no mistakes.

When writing for publication use only one side of paper. Brevity is the soul of wit.

Advertising in The Feather.

The Feather now offers the best and cheapest advertising in the country. Its circulation has increased more than one hundred per cent, during the last year. Its advertising rates are lower than those of any other journal of equal standing and circulation.

The Feather reaches the people that transact the poultry and pigeon business of the country. Its publishers have made a special effort to include among its readers all the most successful and most enterprising fanciers. Advertisers are often astonished by the large amount of business which comes to them after running their card a few months. There is no other medium which reaches so large a proportion of readers in all sections of the country who are able and willing to buy when they learn who are offering the stock or supplies which they need.

Net Advertising Rates.

Space	1 mo.	3 mos.	6 mos.	1 year.
1 inch	1 50	4 00	7 50	12 50
2 "	2 86	7 50	13 80	23 50
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6 "	7 00	18 80	35 00	59 00
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1/2 page....	14 00	38 00	70 00	120 00
2 cols....	18 00	48 75	90 00	154 00
1 page....	25 00	68 00	125 00	220 00

Bills of five dollars or less are payable in advance.

All other bills are payable quarterly after the first insertion for the quarter.

Five per cent. discount will be allowed on bills of over five dollars which are paid in advance.

No advertisement will be inserted at any price from persons who are not responsible or who fail to deal honestly with their patrons. We particularly request our readers to notify us of any advertisers whom they believe to be dishonest or fraudulent. Honest advertisers will be protected—dishonest ones will be denounced.

New advertisements must be received not later than the 1st of the month. Copy for change of advertisement must be received not later than the 25th of the month preceding.

Remittances should be made by postal money order, registered letter, bank draft, or express money order.

All remittances should be made payable to

GEORGE E. HOWARD & CO.,
504 11th Street, Northwest,
Washington, D. C.

Entered at the Post Office at Washington, D. C. as second-class matter.

OCTOBER, 1898.

ADVERTISERS must have copy in for change of advertisement not later than the 25th of the month preceding. Copy for new ads must be received by the 1st of the month to insure insertion.

A Valuable Premium.

On page 6 will be found two very liberal offers to new subscribers. These are made only for a short time and should be taken advantage of before they are withdrawn. The "American Fancier's Poultry Book" which is given free as a premium is well worth twice the amount asked for it. The new edition is gotten up in splendid style, being printed on fine calendered paper, and handsomely bound in heavy tinted paper. It is illustrated with two hundred cuts of

fowls, coops, houses, plans, etc., making it the most complete, as well as cheapest book published. Everyone interested in poultry, whether professional or amateur, should possess a copy of this book. All subjects pertaining to poultry are treated in detail, making it a most valuable reference book. Highest praise is given it by all who have it, and those desiring a copy of the book should not delay in accepting the offer as published on page 6 of this number. Subscribers to THE FEATHER can get a copy of the book free by sending in two yearly subscriptions at 50 cents each.

* * *

The Standard Free.

At last we are enabled to announce with a certainty the new edition of the "American Standard of Perfection." It is a great relief to do this, as it had become quite annoying to attend to the numerous inquiries as to "where is my Standard which I ordered? etc." All this is now at an end and we are prepared to fill all orders for the same without delay. We want every reader of THE FEATHER to have a copy of this book, because they can hardly make a success of breeding poultry without it. For this reason we make very liberal inducements, and will give THE FEATHER for one year and a copy of the book for \$1. If you are already a subscriber you can get the Standard free by sending us two yearly subscriptions to THE FEATHER at 50 cents each.

* * *

Progressive Poultry Culture.

"Hatching chickens by steam" is being verified in these days of advanced civilization and progressive poultry culture. The modern incubator and brooder are great institutions. By their use impossibilities have been made possible, and new fields in poultry raising are being cultivated with success. Incubation is no modern invention, but ages old. Centuries ago chickens and other birds were hatched artificially in various ways, but it was not until the last quarter century that it was developed into a state of perfection and reliability. American genius has made it a grand triumph, and developed it into a practical science. Thousands each year use the incubator instead of the hen, and thousands more must necessarily adopt its use to be abreast of the times and keep pace with the rapid strides that are being made in hatching and rearing chicks, whether for the market or the show-room. It is no experiment to use the modern machine; successful hatches are promised beforehand with as much surety as can be credited to the hen. Eggs that will hatch under the hen, will hatch equally as well in an incubator. After all, we might say that the egg is, itself, responsible for successful hatching, whether the hen or incubator be used, and unless it is laid by strong, healthy stock, no power under the sun can produce a chick of any merit from it.

* * *

A Gratifying Result.

The show at Washington of fine poultry and pigeons, has done a power of good for the industry and has awakened new interest in various parts of the world. A show at the capital city of our nation is in reality a show to the civilized world. We have always contended that if we maintained an annual show in this city we would open up a foreign trade for our birds that would

be beneficial. Of this we are quite sure, we know of many business transactions in poultry and supplies that are directly traceable to the influences of the Washington show. Our foreign exchange list has many interesting items concerning the event which proves the correctness of our assertions. It is gratifying to note this growing interest in poultry, and the time is not far distant when the breeders in this country will have acquired a large patronage among the South American nations and the islands of the Atlantic and Pacific. Below we translate extracts from *El Avisador*, Maricabo, Venezuela, which will, no doubt, be of interest:

"The exhibitions constitute a great attraction of all industries. They stimulate the inventor, the manufacturer, and the workman in their eager battle for competence. They are practical schools for the intelligent observer.

"In the United States of the North they have become a great feature if not a necessity. It is the custom to exhibit everything, and from this has grown up the system of exhibitions. There is no city, village, or hamlet but that has its fairs, in which, with more or less elaboration, are exposed to the inspection of the public, the products of their industries, or of their fruitful soil. * * *

"I believe that the advanced condition of the agricultural and industrial interests in the United States is, in great part, due to these associations and fairs. They have created that healthy, honorable, and industrious element which every country needs for its material development, and have at the same time extended useful and practical knowledge. They have made more intimate and friendly the relations between the several States, and formed the basis of the perfect union. It has been neither the sciences nor capital which has raised this country to the proud height which, with pride and envy, we see it occupy to-day. No; this wonderful growth is due to the union, the morality, and the labor which has found sanction in public estimation, and which has risen above that corruption which is the curse of every country.

"To show things without classification or order is not to exhibit. To exhibit is an art which requires taste, study, and practice. It requires also education, courtesy, and amiability. Taste: to secure an artistic arrangement of the exhibits so as to attract the attention even of those who visit the exhibition only for pastime. Study and practice: that the classification, whether of age, form, importance, or utility, may be correct. Education, courtesy, and amiability: to receive properly every one who, either from curiosity, interest, or necessity, approaches a collection, or exhibit. The North-American possesses all the qualities necessary for a good exhibitor—always ready and willing to explain to every visitor even the most trivial details as to the object exhibited. The most insignificant of the exhibitions in the United States, even those of merely local interest, are of value for instruction, amusement, and profit. Much is gained by one who visits and examines them.

"The last which I have visited was the third annual exhibition of the National Poultry and Pigeon Association. In splendor and importance it surpassed the previous exhibitions of the Association. Very impressive was the effect of the noises and flutterings made by over two thousand birds of all kinds,

conveniently disposed in well-ordered ranks of spacious and grated cages, which permitted the visitor to examine them at pleasure. Chickens, cocks, and hens. Turkeys, guineas, ducks, pigeons, partridges, pheasants, etc., etc. Every variety, either of domestic fowls, or of those sought by the hunter, had here their representatives.

"The exhibition was held in the halls over the Center Market, Washington, D. C. Admission tickets were twenty-five cents, and the catalogues ten cents. It was open to the public one week. Twelve thousand admission tickets were sold. The premiums in cash amounted to \$2,500, and others were given in packages of prepared bird-food, remedies for their diseases, books, publications, and instruments useful in the industry. These premiums were distributed amongst fifteen hundred exhibitors.

"Adjoining the hall in which the birds were exhibited was another in which were exhibited their products; eggs, feathers, flesh, refuse, etc. There were also exhibited incubators, and other machines and implements useful in the industry, foods and medicines, agricultural periodicals, and books. Experts furnished information to the visitor even upon the most trifling detail in connection with the care of birds, breeds, etc., and of everything that could interest those interested in the subject.

"Among the collections of birds, that of pigeons (doves) perhaps attracted the most attention. One who has not seen a complete collection could not imagine the variety and beauty of the pigeons. There are those simply curious, fancy birds, and those valued for their rich plumage and beautiful colors. Some look like respectable matrons, wrapped up to their eyes in furs. Others display their fan-shaped tails, and strut proudly by the side of those other high and haughty ones whose breasts so protrude as to hide their delicate beaks. The proud messenger claims the prize as the most useful of the kind. Here are the English and the American. Amongst the latter the champion of the Homing Pigeons, "Punta Gorda," who has made a flight of 875 miles from Florida to Washington, D. C.

"Is there cruelty to the animals involved in such an exhibition? Certainly not. And, perhaps, it was for this reason that the school children of Washington, in a body, were taken to visit the exhibition of domestic fowls.

"To those in Venezuela who wish to enter upon the business of breeding or keeping fowls, I offer freely and cheerfully such knowledge and information as I have already acquired, and that which I hope to obtain through a special course upon the subject."

The Washington Show.

It is expected that the coming show will be one of the best ever held at the Capital City. Detailed arrangements have been perfected and the premium list will be issued shortly. The officers of the association express much confidence in the event, and all indications point to a successful termination of the fourth annual show.

There have been several changes from previous customs, and these changes, it is hoped will add considerably to the success of the undertaking. The premium money has been changed to \$3 for first prize, and \$2 for second, instead of \$1 for second as heretofore. The entry fee will remain the same, \$1 per bird.

This change should considerably increase the number of entries, affording, as it does, a chance for the exhibitor to more evenly balance his accounts than he could do when the award was only \$1.

Owing to lack of space, pigeons will not be shown this year. This is to be regretted but the management could see no other way out of it. The Central Hall where the shows have been previously held can not be secured this year, on account of its being rented by the Government for military purposes. The coming show will be held in National Rifles' Armory, a very pretty hall, centrally located, but much smaller than the old hall. The space will be ample to accommodate a large entry of poultry, but would not conveniently do for the large number of poultry and pigeons expected to be shown here this year.

Committees are now working on the classification for the premium list, and preparing the list of specials for the same. It is expected the list will be ready for mailing not later than the first of November. Those wishing the same should write to the secretary.

The officers of the National Poultry and Pigeon Association are: John L. Waggaman, president; H. A. Munson, vice-president; W. Seymour McLeod, secretary, 917 F St. N. W.; and S. W. Stinemetz, treasurer. The judges are: D. J. Lambert, D. A. Nichols, and George O. Brown.

Personals.

The Messrs. Knapp Bros., Fabius, N. Y., who began their ad last month in THE FEATHER, write: "One good order from your journal just received."

C. E. Vass, Washington, N. J., has made two importations of Buff Orpingtons during the past year, and has raised a fine lot of chicks this season.

Josias J. George, Baltimore, Md., says: "THE FEATHER I wouldn't be without. I have received some orders from my classified ad from as far away as Wisconsin."

Rose Lawn Poultry Farm, Marlboro, Mass., Arthur G. Duston, proprietor, has been extremely successful this season in hatching White Wyandottes, and has a large number of prime birds for disposal.

The F. W. Mann Co. had a splendid display of their Green Bone Cutters at the Syracuse show. George Littlefield was in charge of the exhibit and made practical demonstrations of their value to all in attendance.

Mr. D. R. White, Grand Rapids, Mich., proprietor of the "Little Eden" Fruit and Poultry Farm, was a visitor to our office this month. Mr. White is an enthusiast on the Light Brahma and it does one good to hear him speak of its value as a throughbred, practical fowl.

It has been said that a great part of the success of the late Syracuse show, was due to the efforts of Oscar J. Lewis, of Schodack Center, N. Y., the superintendent. His arrangement of the birds was well nigh perfect, and his accommodating manners won the admiration of the visitors.

S. H. Laney, Elmira, N. Y., won at the last Hornellsville show, first on hen, and first on pen, with his Light Brahmas. Mr. Laney showed a pullet, not mentioned, that was a beauty. She had an excellent tail, the coverts being evenly edged with white; her shape

was good, with rich-colored hackle and wings.

Frank Heck, secretary and treasurer of the American White Plymouth Rock Club, wishes us to say to the several hundred applicants for their catalogue, who have written complaining that they have not received the book, that the issuing of it has been unavoidably delayed. When the announcement was made that it would soon be issued, they intended having it ready for mailing within thirty days, but their membership list has been increasing so rapidly that it was thought advisable to delay the matter for a few weeks, in order that the names and addresses of as many of the members as possible might appear in the book. The copy has now been in the hands of the printer for some time, and they hope to be able to distribute the book at an early date. Those who are desirous of receiving a copy are invited to send their names and addresses to the secretary, Frank Heck, New Albany, Ind.

TOO LATE FOR CLASSIFICATION

TO EXCHANGE.—Short-Line Telephones for Magpies, Almond Tumblers, Mooreheads, or Yellow-wing Turbits. Address, W. B. CARAWAY, Alma, Ark.

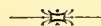
WHITE JACOBINS ONLY. I have 50 White Jacks now for sale. Some of the finest stock in America, fit to win anywhere. Stock and show birds for sale. Satisfaction guaranteed. H. CLOSE, Dunkirk, Ind.

FOR SALE CHEAP.—Prairie State—200-Egg—Incubator, perfect condition. Also a few choice S. C. W. Leghorn (Wyckoff), and 3 Ancona cockerels (Branthoover). H. D. KNIGHT, Lancaster, Pa.

WHITE PLYMOUTH ROCK cockerels, White Wyandotte cockerels, White Rose Comb Leghorn cockerels, 4 Single Comb Brown Leghorn hens, 1 cock, guaranteed. Many prize winners in lot. OWEN P. BROSIUS, Media, Pa.

Mexican Mustang Liniment

Completely cures all diseases of Poultry.



Poultrymen everywhere are testifying to its merits as a remedy for—

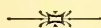
Diphtheritic-Roup, Gapes,
Frosted Combs, Pip,
Bumblefoot, Diarrhoea,
Scaly Legs, Cholera,

And a thousand and one other ailments which affect Poultry.



Write for free booklet

"Poultry Pointers."



Lyon Manufacturing Co.,

41, 43, 45 South Fifth St.,
Brooklyn, N. Y.

Practical Poultry Raising

FOR THE
EXPERT.....
AND BEGINNER.....

Houses For Ducks.

Houses for ducks are simple affairs. They are built plain and comfortable, and have no furnishings whatever. A duck is differently constituted from a hen, and must be cared for under different conditions. The hen needs warmer houses and drier surroundings than does the duck. A duck does not mind the cold, if she can keep her feet warm; cold feet will affect a duck as a frozen comb does a hen, retarding laying and inducing ailments. The feathers of a duck are almost impenetrable and will withstand almost any degree of cold. Again, a duck can not stand the amount of confinement in a house that a hen can; she is more restless in disposition and is given to exercise in a greater degree than is a hen. Indigestion is not so prevalent with ducks as with chickens; the duck's ceaseless motion aids the digestive organs and keeps her generally in good health.

In Fig. 1 is shown a simple house that may be built at small expense. It is plain and has a shed roof. Such a house should be built of rough boards, 12 inches by 1 inch, and joints covered by 3-inch by 1-inch strips. The roof should be made water-tight and covered with tarred paper, shingles, or tin. The outside should be well drained around the bottom, that it may not be damp. Some advocate board floors, raised from 6 to 8 inches from the ground and covered from 4 to 6 inches with dry earth, straw, or leaves. The writer favors the using of board floors in all houses for chickens, but thinks it not essential for ducks. If the house is well drained on the outside and the earth floor is covered with hay, straw, or leaves, it will be perfectly satisfactory. There must not be dampness in the house, as the birds will not do so well; while they are given to water on the outside they must have comfortable quarters in which to "warm up," or "dry out."

The building shown in Fig. 1 may be constructed of any dimensions desired, according to the size of flock to be kept. A house 12 by 14 feet will accommodate nicely a flock of a dozen. There are no interior arrangements whatever, simply the floor surface of the building. It is better not to use nests. Some raisers use a plain nest. These nests are made of 1-inch boards, 12 inches high and 16 inches long, set 14 inches apart, and held together in front with a 3-inch strip. The nests are nailed to the back of the house. But more than half the eggs are laid on the floor of the house or in the yard, and, if permitted, a duck will build herself a nest to her liking. Again, a duck is liable to injure herself by falling over the strips in front of nests or other obstructions that may be in the house.

When two or more breeding pens are to be kept, the plan of the house shown in Fig. 1 may be extended to any length desired, as shown in Fig. 3. Fig. 2

shows ground plan. An enclosure should be given the breeding ducks, as they do better confined than when at liberty. Give plenty of room and enclose the run with 2-inch wire mesh 2 feet wide. If water is accessible, it should be enclosed by the mesh-wire fencing of the same width as for the run.

Dirty Pigeons.

Editor The Feather:

I am breeding Red-checked Homers and they do not keep clean. Their flights and tail-feathers are very dirty and I would like to know how to clean them. The floor of my loft is covered with clean white sand. I rake it over three times a week, and renew it every two months. I put a pan containing about two and one-half inches of water in the loft every day for them to bathe in. The birds splash around and seem to do their best to get clean. When I think they have finished, I take the pans out, wash them and put them away until the next day. I keep seven pairs in each loft, twenty feet square and six feet high, and I do not see how they can possibly get so dirty. How many pigeons can I keep in a space twenty-four feet long, eighteen feet wide, and five feet high?—T. H., Jr., Astoria, N. Y.

There is no reason why your birds should be so dirty. A pigeon is naturally clean, and if supplied with ample

water for bathing and clean quarters to roost in, they ought to be clean always. Perhaps the bath is not large enough for the number of birds. It may be the nests and perches are dirty; if so, the feathers while damp will absorb the dirt and stain. If the birds are too dirty to show, it is an easy matter to wash them with a sponge, using castile soap, and luke-warm water. But there is no reason why they should be dirty with water to bathe in, and clean sand or sawdust on the floor of the house. A house the size you mention ought to accommodate nicely fifty pairs of birds.

Indigestion.

Editor The Feather:

Please give me a little information on the following: I have lately lost a few chickens. They seem to be all right in the morning, but after they have been out a while they were unable to walk, their eyes would close, their heads swell, they had a slimy substance in their mouths, and their necks were as limber as a rag. I have cut a few open and found their stomachs to be of a yellowish green. For any information you could give me I would be very much obliged. I like THE FEATHER very much, and think it is the paper. I would not be without it.—C. A. F., Trenton, N. J.

Evidently the birds are suffering from a bad form of indigestion. This complaint is conceded to be brought on either by a cold or too stimulating food. Its effect is constipation, inflammation of the stomach, diarrhoea or dysentery, the crop is sometimes swollen, and the liver is seriously affected. The bird becomes sluggish and inactive. Two grains of rhubarb given daily, and one grain calomel every fourth day will relieve the bird. The diet should be limited and powdered charcoal used in soft food.

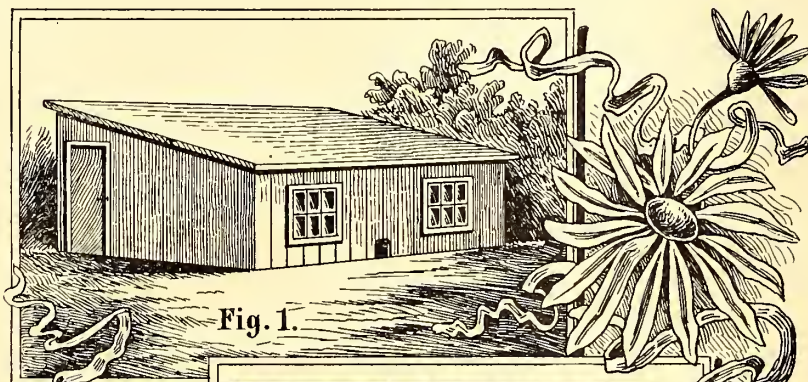


Fig. 1.

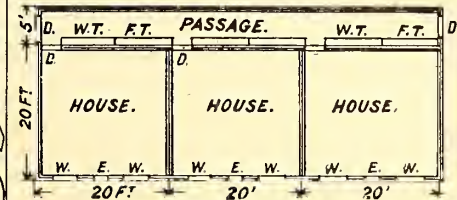


Fig. 2.

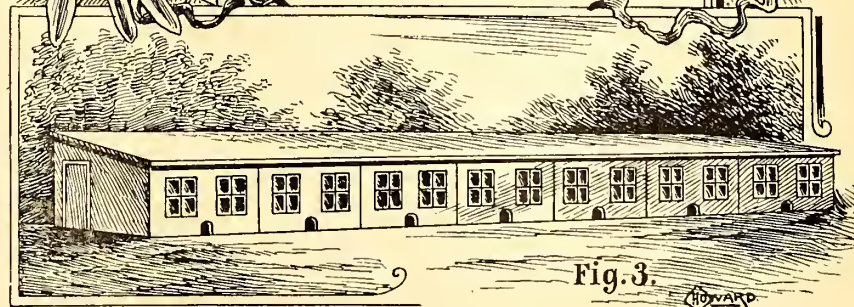


Fig. 3.

HOUSES FOR DUCKS.

New York's Egg Consumption.

Receipts of eggs in New York City in the year 1895 were over 69,000,000 dozen; in 1897 over 91,500,000 dozen. At twenty-six ounces to the dozen, last year's receipts would weigh about 74,343¾ tons, and would load 3,717 cars with a little over twenty tons each. At fifteen cents per dozen they would be worth \$13,375,000.

Chicks With Colds.

Editor The Feather:

My chickens have a slight cold which I am anxious to get rid of before the cold weather sets in. What is a good remedy? Is tar water a good remedy?—G. E. V., Lynchburg, Va.

Keep the birds in a warm, dry place, free from draughts. Three drops of aconite in a half-pint of water for drink is a good remedy. Feed soft food, seasoned with a little cayenne pepper and mixed with warm water. Would not advise the use of tar water. Can not see any benefit in using it.

More Chicks With Colds.

Editor The Feather:

My young chicks seem to have a cold in the head and sneezing. They have a discharge in their nostrils. They look well and eat heartily. Will you kindly advise me what to do for them?—C. E. V., Washington, N. J.

Treat your birds as given above for "Chicks with Colds." If the discharge in nostrils is severe, wash the nostrils, eyes, and other affected parts with a solution of chlorinated soda, diluted with twice its bulk of water.

Canaries—Best House.

Editor The Feather:

Will you please tell me what is the matter with my canary? It has swellings on its toes where the skin joins the nail. What kind of a hen-house should I build in a place where the thermometer does not fall below 30 degrees in winter, nor rises above 90 degrees in summer? and how many chickens should I put in one house?—A. J. K., Galveston, Texas.

Swollen feet in canaries are sometimes caused by the bird subsisting too much on seed and not having sufficient green food. Changing the food will usually improve the blood of the bird and effect a cure. The best house to build is one made of rough 1-inch boards, and joints covered with 3x1 inch strips. A glass sash should be in front of house, and open scratching-shed attached. It is not well to keep more than a dozen fowls in one house, 10x12 feet square.

Difference Between the Two.

Editor The Feather:

Will you please tell me if there is any difference between a Homing Pigeon and a Carrier?—L. C. M., Bellwood, Pa.

There is the greatest difference between the two birds. The Homer is the bird used for flying, "homing" purposes, racing, etc., and is bred for these qualities alone. The Carrier is a different bird entirely, of another shape, style, and character, and is bred for show or exhibition points. It is termed the "King of Pigeons." Both birds have been described in THE FEATHER at various times.

Wry-Tailed Fans.

Editor The Feather:

Some of my Fantail Pigeons have crooked tails. What makes them? Please answer in THE FEATHER.—J. A. F., Little Rock, Ark.

It is a difficult matter to remedy a wry tail in a Fantail, if an old bird. The usual practice is to cut out the feathers on the heavy side, and weigh down the other side with small pieces of lead tied to the tail-feathers. This will some-

times straighten the tail, but if naturally wry, or bred from wry-tailed parents' you are not likely to remedy the fault.

Lumps on Pigeons.

Editor The Feather:

Can you tell me what to do for lumps on young pigeons? I never saw them before.—W. E. J., Stapleton, Richmond Boro, N. Y. City.

Your question is very unsatisfactory to answer. Pigeons sometimes have tumors on various parts of the head in the shape of round, hard bunches. If yours are affected in this manner the tumors can be easily removed by making an incision with a sharp knife and squeezing the interior lump out. When lump is removed, sprinkle a little burnt alum in the wound.

Price of Squabs.

Editor The Feather:

What do Squabs bring per pair or pound, and where can they be most readily sold?—D. R., St. Nicholas P. O., Fla.

Squabs are sold from \$3 to \$4 per dozen in wholesale markets. Any large city is a good market for squabs.

Mating Nest Pairs.

Editor The Feather:

Please tell me through your paper if success can be had by mating nest pairs of pigeons.—F. T. T., Bealton, Va.

Success can not be had by mating nest pairs. The practice is to be condemned, and if followed the flock will become degenerate.

Shows and Associations.

The Harvey County Poultry Association will hold its next annual show at Sedgwick, Kansas, December 5-10, 1898.

The Rock River Valley Poultry Association announces its annual show at Dixon, Ill., December 6-10, 1898. H. V. Bardwell, Sec'y.

The Charlotte Poultry Association will hold its second annual show at Charlotte, N. C., January 18-20, 1899. W. M. Barringer, Secretary.

Thos. W. Pottage writes that the Indianapolis dates have been changed to January 23-28, 1899, so as not to conflict with the Chicago event.

The first show of the Coatesville Poultry and Pigeon Association, will be held in Coatesville, Pa., November 15-19, 1898. J. H. Scherer, Secretary.

The Eastern Magpie Club will meet at New York during the show. George W. Spohn, secretary of the club, will judge the Magpies at this meeting.

The third annual show of the Granite City Poultry, Pigeon, and Pet Stock Association, will be held at Barre, Vt., December 27-28, 1898. C. W. McMillan, Secretary, 29 Academy St.

The fifth annual exhibition of the Muskingum Valley Poultry Association, will be held in Memorial Hall, Zanesville, Ohio, December 7-10, 1898. Chas. U. Shryock, Secretary. M. A. Longley, Superintendent.

The second annual show of the Military Tract Poultry Association, will be held in Avon, Ill., November 29 to December 2, 1898. George E. Simmons, Secretary, Avon, Ill. Messrs. Shellabarger and John C. Snyder will judge.

"Sanitas"

is an absolutely non-poisonous disinfectant, and is necessary to produce healthy birds. "Sanitas" disinfecting powder should be freely sprinkled in the yards and used as a whitewash. It destroys lice and prevents disease.

How to have thoroughly sanitary surroundings is told in a pamphlet by Kingzett, the eminent English chemist. Price 10 cents. Every household should contain this little help to comfortable living. It will be sent FREE to subscribers of this paper. Write

THE SANITAS CO. (Ltd.),

636 to 642 West 55th Street, New York City.
Disinfectant and Embrocation Manufacturers.

WHITE WYANDOTTES.

ONE KIND - - -

And They The Best.

We have no other breed. We have no other business. The perfecting of America's most popular breed is our business.

THE HOME OF THE

WHITE WYANDOTTE

—IS—

...WILLOWCREST POULTRY YARDS...

GOSHEN, N. Y.





CONDUCTED BY J. C. LONG, NEW YORK CITY.

Exhibition Notes.

The contraction of the days, and the near approach of "the storm winds of the equinox," reminds us that the season has arrived when pigeon fanciers from a distance can meet and compare the qualities of their stock, and discuss the questions in which all are so much interested; and great praise is due the different State and local societies, that provide ways and means for this much-desired privilege. For there is no greater stimulus to improvement in all varieties of feathered pets, than these privileges of meeting brother fanciers, comparing the results of the breeding season, exchanging ideas and disposing of surplus, or purchasing new stock. These meetings, while often held at a loss to the management, and under discouraging circumstances, have proved of infinite good to those with enterprise enough to become exhibitors, and, if totally abolished would cause a wail of despair to arise from every yard and loft in the land. Hence it is the duty of every fancier to encourage by their presence and contribution to the display all the fairs, local and State, in their locality, even though the returns are small, thus showing their appreciation of the opportunity for comparison and convincing the managers that this particular branch of the exhibition is worthy of encouragement.

The success of each department of any exhibition largely depends on the ability of the superintendent of that department to make it a success. He should have a thorough knowledge of the articles that are to be entrusted to his charge, have good ideas of arrangement, so that all articles of a kind should be placed together, and thus avoid the necessity for the judges to run from one end of the department to the other, carrying the points in question in their minds. In many exhibitions there are very poor, if any, accommodations for pigeons, and they are, consequently, allowed to be shown in their own coops. With such arrangements it is impossible to compare satisfactorily, and the judges' decisions many times are unsatisfactory, because of this wide separation of the various pairs of a variety. In those shows where all of a kind are confined in cages contiguous to one another, the chances for errors in judgment are far less, the strength and patience of neither judges nor exhibitors are so severely taxed and visitors have better opportunity to note the varying degrees of quality that determine in the judges' minds the grade to which each pair or specimen belongs. Unjust criticisms of the judges' action are less likely to occur, and if a point comes in question, and the judge understands his business, he can quickly show the critic where one is superior to another. With birds 100 feet apart, and a crowd to elbow one's way through,

where the competition is close it is almost impossible to convince the fault-finder that the judgment is correct.

To place birds in correct positions requires an immense amount of handling, and needs to be done by experienced help, otherwise there is a chance for serious mistakes, and even the most expert will let an active and strong specimen occasionally slip through their fingers, and, once at large, it is difficult to catch again. All experienced judges and exhibitors realize how necessary it is to have a capable superintendent, and with such a man at the head the chances for a large display are much more certain than if under the charge of one ignorant of even the names of varieties. It is rare in these days to find such a person in charge, but in the earlier days, when the attractions of poultry and pigeons were first beginning to be understood, any "old thing" was thought good enough for a superintendent of this department, and the consequence was a jumble of exhibits that not only tried the patience of the judge but worried the exhibitor, and mystified the spectator. Thanks to increasing knowledge of both the practical and the beautiful, those days are past, and men are abundant enough in most any civilized locality, who have the knowledge necessary to conduct and properly arrange all exhibits when the facilities are afforded for him so to do.

Following this increased knowledge of the qualities of feathered stock, has come an improved system of cages in which to show the birds. In the earlier days the coops and boxes that fowls and pigeons were sent to exhibition in, were as varied as the flowers of the fields, and to see some of them placed in position to-day, would excite the most intense ridicule. I well

remember the coop that the first Wyandottes ever shown in New York arrived in. It was lop-sided, weather-beaten, and dirty, and looked as if it had done service as a pig nursery before it had been pressed into service as an exhibition cage. But the Wyandottes were a curiosity and in the pleasure of a view of this novelty the ugliness of their surroundings was forgotten. This particular cage was an exception, but while I think I never saw one quite so bad, I have seen many that would be laughable to look at to-day. Neat cages to-day are the rule, and under this improved order of things the pigeons and poultry are attractions that none now pass by with contempt.—J. C. LONG.

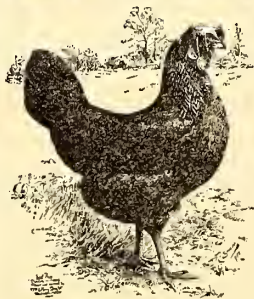
Owl Club Specials.

The following list of club and individual specials will be competed for by members only at the next meet, which takes place at New York during the show of the New York Poultry and Pigeon Association: By the club, Silver Cup for best English Owl, cock or hen. The Silver Cup known as the Bond Cup, put up last year and won by Mr. Eckert, will be competed for again this year, and same as last year to the best Blue or Silver English Owl hen; this through the kindness of Mr. Eckert. The Silver Cup offered by the club last year for best Blue or Silver African Owl, cock or hen, will be offered again this year on the same. It will be remembered that this cup was withheld on account of no competition. President Wm. Ehinger offers Gold Medal for the best White African Owl in the show, cock or hen. Mr. E. W. Bond, vice-president, offers Gold Medal for best Blue or Silver English Owl hen, and Mr. W. Kennedy offers the same for best Blue or Silver English Owl cock. Mr. Geo. W. Eckert donates another medal for best African Owl of any other color. All the above specials are for young birds of 1898 hatch, and must wear the Willetts' enamelled band of that year to be eligible. Mr. Robert N. Oliphant, Trenton, N. J., has promised another special, but up to the time of writing had not decided what to put his special on. Those interested should write George Feather, Secretary American Owl Club, Dorchester, Mass., for full information and copy of the constitution and by-laws of the club.

MORE THAN A SCORE OF SHOWS WON

During the past season by customers of

BRIGHT'S BROWN LEGHORNS BARRED P. ROCKS



THESE honors, with those won at America's Greatest Show, Boston, 1898, including six firsts and all the collection and grand specials, is convincing evidence that this stock has no superior. My birds this year show the results of one more year of careful mating and are the best I ever owned. They are strong all-around show birds and breeders. The better you know them the better they will please you.

The Best Breeding
Stock I Ever Had For Sale.

Exhibition Birds for the
December Shows....

GROVE HILL POULTRY YARDS,

A. C. SMITH, Superintendent,

Box 411, Waltham, Mass.

W. E. BRIGHT, Prop.

...Homing Pigeons...

Nesting Material.

Pigeons in a state of nature build a rough nest of twigs and coarse grasses. In confinement they are unable to get such material, but as a substitute tobacco stems can be used, which not only satisfy the natural desire to build but also answer as a guard against vermin. A few of these placed in one corner of the breeding room occasionally, will be quickly appropriated. Some breeders do not believe in coarse nesting material, and in its place use coarse pine shavings, renewing them as often as they become foul. But this does not satisfy the natural desire that the pigeon has to build a nest, and so I believe that they should be gratified in this natural instinct, although I also think a layer of coarse pine sawdust for a foundation where nest-pans are not used is a good thing. It prevents the excrement from sticking to the floor of the apartment, is a preventive of lice, and is easily removed and renewed as soon as the young birds are taken away.

Canker.

Canker is an evil that the squab raiser has sometimes to contend with. The cause of it is often ascribed to impure air and water, but as it makes its appearance in flocks that have the best of care, this evidently is not the true cause. It is diphtheritic in its nature, and the symptoms are high fever, congestion, and swelling of the blood-vessels of the throat, accompanied by little white ulcers, which, if neglected, spread very rapidly all over the interior of the mouth and throat. Like roup it usually makes its appearance in cold, damp weather. When a squab once becomes affected old and young should be at once taken from the breeding room and the apartment they occupied disinfected. The old birds should be examined, and if found with canker in their mouths it should be removed and the canker spots painted with a solution of lemon juice and sugar. Powdered burnt alum is also good to apply. The young birds can be treated in the same way, but if the canker has spread much about the mouth it hardly pays to spend much time over them. The old birds need to be thoroughly cured before turning back into the breeding room. A small piece of alum in the drinking water of the old birds will aid in the cure, and if the whole flock is threatened a piece in the different drinking vessels for awhile will act as a preventive.

Care and Flying of Homers.

The sending of messages by birds has become quite systematized. The paper, the holder, the recording of the bird and the keeping track of him are all matters of routine nowadays. In instructing the men of the naval militia in the use of this valuable adjunct to naval signalling, a printed order was recently issued, from which we quote as follows:

In deciding upon the proper times for releasing the bird officers should be guided by the following well-established facts: Birds will not fly at night, in rain, fog, or heavy mist, nor can they be expected to fly against a very strong wind. Therefore they should never be released at such times, nor later than four to five p. m. if fifty miles distant from the cote. Calculation should be

made on the basis of twenty-five miles per hour to time the arrival of the bird at its cote before sundown, weather conditions to be favorable.

Food is one of the factors used to develop the homing qualities of the bird. A bird is believed to fly faster toward his cote if hungry. To this end food should be taken away from the birds about three hours before tossing. Water should never be denied them.

In order to have good birds they must be well taken care of, their cotes must be kept clean, and plenty of good, fresh water should be frequently supplied.

The message to be carried by the bird is written on prepared blanks of just the size to fill tightly, when properly folded, the National Message Holder clamped to the leg of the pigeon. To attach this holder the bird is held with his back down and a handkerchief laid over his head. He will remain perfectly quiet in this position while receiving his message but care must be taken not to break his wing or tail-feathers. When ready, toss the bird into the air; up he will go straight into the blue, then presently dart off for his cote, many miles distant.

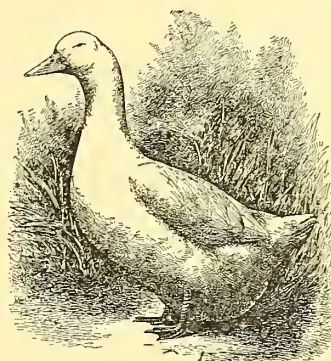
For coast signalling a circle struck with a radius of one hundred and fifty

miles from the cote as a center should be regarded as the extreme radius of flight of that cote. Birds have often flown over water more than two hundred miles, but when the birds are tossed in time of war a reasonable certainty must exist that they will reach their homes in safety, so it is well not to exceed the ordinary limits of flight of one hundred and fifty miles, except in extreme cases, and then only with well trained-birds.

It is recorded that some years ago the steamer Waesland liberated a bird 315 miles from Sandy Hook at 1 p. m., and it was in its loft on shore the same evening.

Advertisers in THE FEATHER are known to have results.

ATLANTIC FARM.



Hallock's Pekins

Are among the first on the market, are sought for by the trade, command the highest prices and give the best of satisfaction in every way. And in the show room it's the same story. The proof is the long string of blue ribbons they've won at New York, Boston, Washington, D. C., and other shows. Breeders are now ready for delivery at reasonable prices. A free booklet gives the particulars. Address,

A. J. HALLOCK,

Box F, Speonk, L. I., N. Y.

**S. C. B. LEGHORNS,
ROSE C. B. LEGHORNS,
GOLDEN WYANDOTTES,
B. PLYMOUTH ROCKS.**

Order early at half price.

Young stock for sale after September 1st.

GUSTAVUS CULP,

Virginia Mills,

Adams Co., Pa.

CUT CLOVER HAY.

Second Crop.

Prepared especially for Poultry and ready for use.

\$1 per 100 lb. Bag.

Write for illustrated catalogue.

A. A. CHICKERING,

Seeds and Poultry Supplies. Louisville, Ky.

I have got as good . . .

...BLACK LANGSHAN...

Cockerels as any breeder in this country. They not only win 1st prizes at such shows as Boston, but they are equally as valuable for utility. I can ship you birds that WILL win. I can ship you birds that WILL breed layers. Circular.

J. H. LORD,

Box 26 F,

Lawrence, Mass.

NORTHUP'S MINOR GAS SINGLE AND ROSE GOMB.

My Minor Gas in the hands of my customers have never lost a special for large size, and have won more prizes in strong competition at New York, Boston, Washington, and other leading shows, than any other four strains combined, which proves the quality of stock I sell. I have **SHOW BIRDS AND BREEDERS TO SELL** at prices according to quality. Positively, I do not compete against my customers. Large catalogue tells the rest. Mention The Feather when you write.

GEO. H. NORTHUP, Box 307, Raceville, Wash. Co., N. Y.



Brahma Breeders Run No Risk

When introducing new blood from

Hartnest Pedigreed Strain of Light Brahmas.

The record of each individual number of this strain is kept from egg to egg, and a

CERTIFICATE OF PEDIGREE

Giving every information of ancestors that careful breeding can obtain, goes with each purchase—whether eggs or breeding stock.

FAMOUS FOR THEIR HEAVY LAYING.

HARTNEST PARK,

SAM'L FOOTE, Supt.

FRAMINGHAM, MASS.

THE BUSINESS WORLD.

As Viewed From the Columns of The Feather.

A PIONEER BREEDER.

One of the oldest breeders of fine Brahmas is George C. Bucknam, Melrose Highlands, Mass., proprietor of the Rossmore Poultry Yards. Mr. Bucknam began breeding Light Brahmas in 1847, and has bred them continuously since then until March 24 last, when he sold his entire flock and good will in them. Light Brahmas were his particular delight and the many thousands of birds bred by him were scattered throughout the universe. He has sold over 2,700 birds in his time. He has the distinction of raising and selling the highest-scoring Light Brahma in this or any other country. Mr. Bucknam, says: "The Light Brahma which had the highest score, 98 $\frac{3}{4}$ points, I sold to George P. Burnham, now of Melrose, Mass., who exhibited her at Portland, Me., competing for and winning the \$100 Gold Special, offered by H. H. Stoddard, editor of the *Poultry World*." The late E. C. Comey is credited with saying at that time that it was a better Light Brahma than would ever be raised again. These are given as facts and Mr. Bucknam says they can be substantiated any time. He regretted selling his Lights, but for private reasons he felt that he should, so that he would be able to concentrate his entire time and skill on breeding Darks, as he thought this noble breed of fowls had not had a fair chance in this country. Seven years ago he began breeding the English "Full Feathered" Dark Brahmas. Every one of his breeders was imported at long prices. These imported birds were of massive shank and toe-feathering, and had what is considered so objectionable in this country, the vulture hock. This Mr. Bucknam has overcome through a late importation of males, and has eradicated this objection, but still retains the immense shank and toe-feathering. He has spent over \$3,000 importing his Dark Brahmas in the past seven years.

Mr. Bucknam's plant comprises five acres of orchard, with two large houses, fifty and sixty-five feet long respectively, besides numerous smaller ones. His birds are typically Brahma in shape, and the pullets have the rich "steel gray" penciling that is very fine. See Mr. Bucknam's ad in this number and write him for circulars and prices.

THEIR NEW PLANT.

The Cyphers Incubator Co.'s new plant at Wayland, N. Y., is now in full operation, all machinery and supplies having been moved from Philadelphia to the new location, where they now have the most perfectly equipped incubator plant in the world.

Wayland is centrally located in Steuben County on the lines of the Delaware, Lackawanna & Western, Erie, and Central New York and Western Railroads, which gives them unsurpassed shipping facilities.

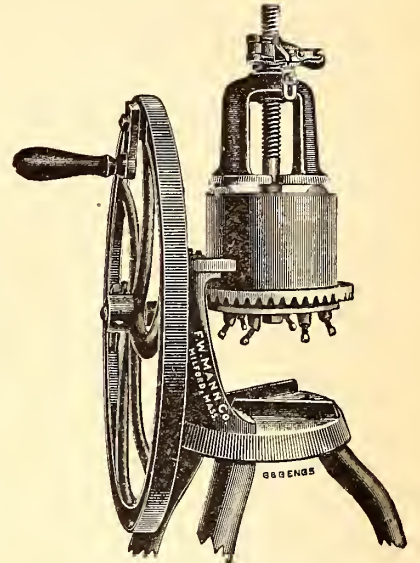
The main factory building is three stories high and contains twenty thousand square feet of floor space. It is fitted with the most modern machinery and equipments, steam-heated, and lighted by electricity. The entire plant covers an area of five acres, including the poultry division, where a practical poultry plant is in operation the year around. There is a storage house of six thousand feet capacity, lumber houses, dry kilns, paint and varnish house, experimental station where all machines are thoroughly tested and several other buildings of minor importance. Nearly fifty thousand dollars has been invested in this plant, made necessary by the unprecedented demand for The Cypher Incubators and Brooders. The cut reproduced here represents the main factory building.

With their present facilities The Cyphers Incubator Co., is enabled to fill orders on the day they are received. During the present season this company is paying freight on their incubators to all parts of the United States, an offer that will be appreciated by purchasers in the extreme West and South. The Cyphers Incubator has been much improved this year and is making new friends daily. Address, Box 6, Wayland, N. Y.

MODERN MACHINERY FOR THE POULTRY BREEDER.

It may sound strange to many to speak of machinery in connection with poultry raising. Yet it is a fact that machinery has become a necessity to the greatest profit and success in this business. The old way consisted of "any old shed" for shelter, a handful of corn and dung-hill gleanings for food, and water wherever it could be found, too often the open sink drain affording the only reliable source. Yet even under these adverse conditions the "busy hen" supplied the household with groceries, and oftentimes with clothes also.

But as the poultry business grew and took on larger proportions from year to year, the old ways were discarded.



Mann's Bone Cutter No. 4.

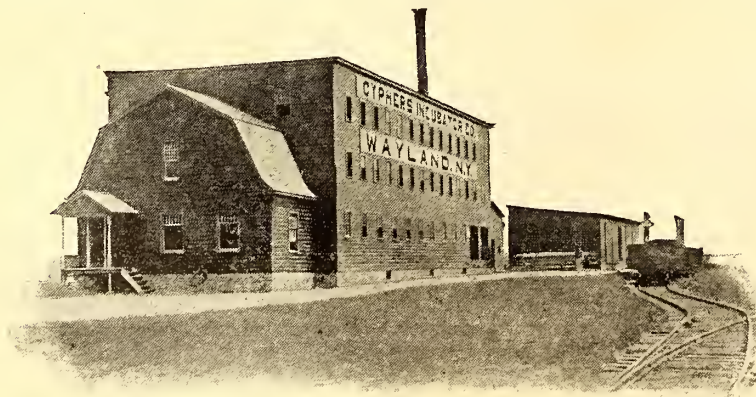
Careful study and scientific methods have gradually evolved an entirely new condition of things. Artificial incubation produced the incubator and brooder. The hidden value of green bone brought forth the bone cutter, waste of food necessitated the improved feed trays, fresh and pure water called for and produced the drinking fountain, congested crops and consequent loss by choking stimulated the yankee genius to invent a reliable clover cutter. The superiority of granite grit over oyster shells, started up the stone crusher, and so on through a long list of articles that have grown to be necessities. But the greatest stimulus was given to the poultry business when the bone cutter was invented by Mr. Mann in 1888. He first conceived the idea and put into practical form, a machine to cut up green bones and gristle for poultry food. With this machine, poultrymen were able to utilize the waste product of butcher shops, with a wonderful increase in the egg product, so that no breeder thinks of omitting green cut bone from the diet of his flock.

Through the courtesy of F. W. Mann Co., we are able to present a cut of their latest and most improved bone cutter. They were the originators of the bone cutters, and gave to them a name. Their machines were necessarily crude at first but each year has seen rapid improvement, until their new No. 4 (which we picture above) seems to have reached almost perfection. The necessity of having the green bone fresh and sweet, has rendered the bone cutter indispensable. The greatly increased egg production soon repays the original outlay, and leaves a handsome margin of profit. The wise poultryman will seek the best machinery and appliances, and in the end will reap the greatest success.

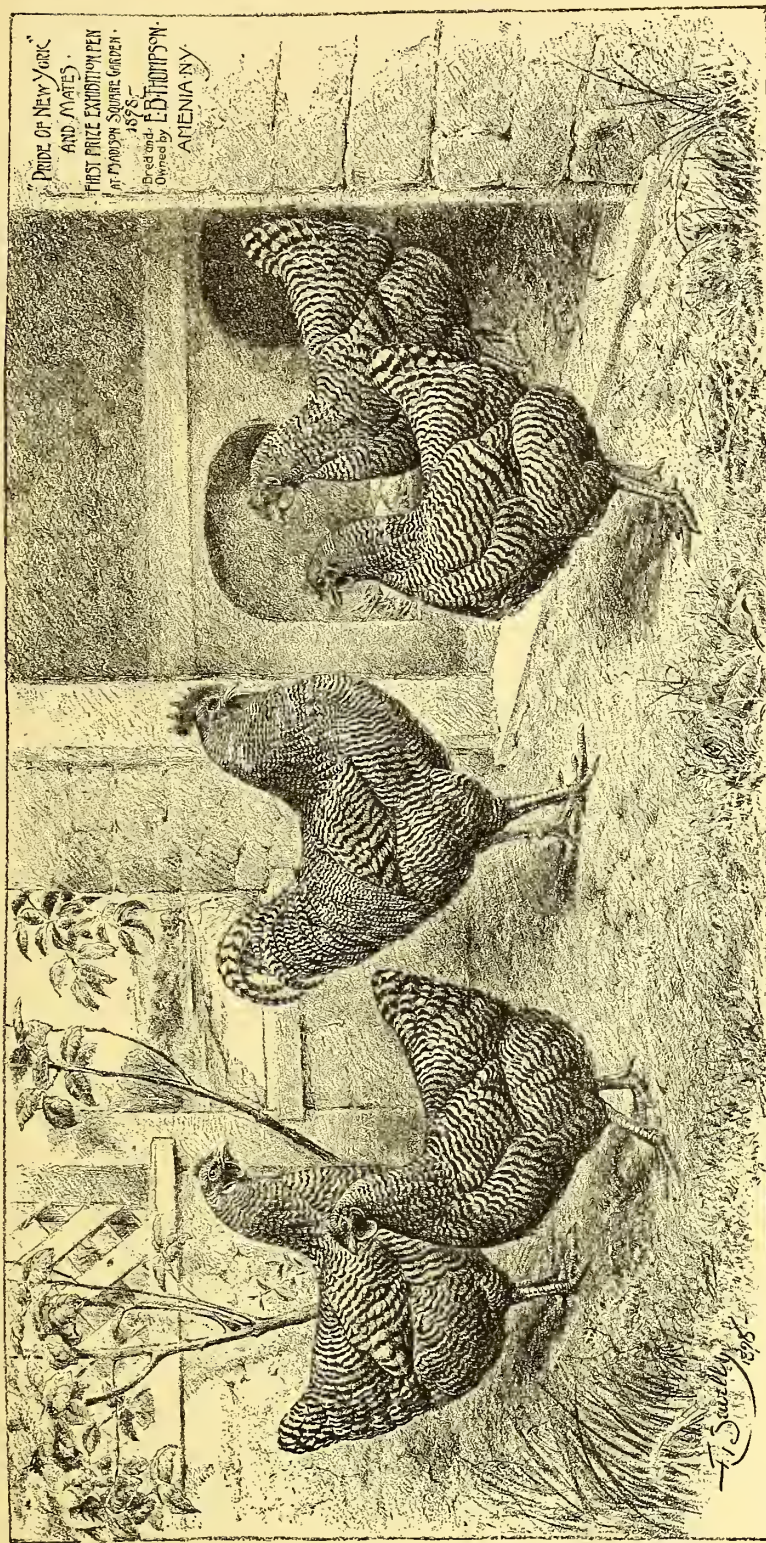
In beginning, don't try to get everything at once. Decide on the most important and get that, and gradually increase your outfit, letting the profits of the business pay all the bills. As green cut bone doubles the egg yield, a good bone cutter should be the first purchase, and let other requisites follow from time to time, as your means will permit.

A NEW BROODER.

The Star Incubator and Brooder Co., Bound Brook, N. J., have just put on the market their New Hot Air Out-door Brooder. The brooder is in size 45x46



Main Factory Building of the Cyphers Incubator Co.



FIRST-PRIZE PEN OF BARRED PLYMOUTH ROCKS AT NEW YORK, 1898.

The illustration herewith shown of E. B. Thompson's first-prize pen of Barred Plymouth Rocks at New York, is a splendid representation of a splendid pen of birds. Our readers are well acquainted with Mr. Thompson and know the superior quality of his birds. His great success in breeding such prime birds is due entirely to his own efforts, and untiring attention to every detail of the work. His success is not recent, but dates back some years, he winning the choicest prizes at New York each year.

inches, and sells for \$10. It has the lighted hover-chamber, the same as the other brooders made by this company, and which have proved so very successful. Circulars and description will be sent on application. Write them, The Star Incubator and Brooder Co., Bound Brook, N. J.

IMPORTANT SALE.

This is to certify that I have this day sold to J. C. Pratt, agent, of La Grange, Illinois, my entire stock of B. B. R. Games, including breeding birds and chicks. Also my good will as a breeder of B. B. R. Games for a period of five

years. I take pleasure in commending Mr. Pratt to my patrons.

W. E. HAMILTON,
Sept. 24, 1898. Odebolt, Iowa.

TRANSFER OF STOCK.

This is to certify that I have sold my Buff Plymouth Rock cock, winning 1st at Cleveland, 1897, to F. C. Foxton, Syracuse, N. Y.

MRS. H. G. PARKER,
North Collins, N. Y.

CERTIFICATE OF SALE.

This is to certify that I have sold to Theo. Haight, Jr., proprietor of the

Hopedale Pigeon Loft, twelve thoroughbred Red-chequered Homers, banded 295, 296, 283, 279, 260, 261, 244, 238, 212, 211, 210, and 209.

A. F. SPANGLER,
Brick Church, N. J.

FOR THE WINTER LAYERS.

While we are always looking after and striving for new business and customers, it affords us more than a usual amount of pleasure and satisfaction to receive the continued patronage of our old customers. On another page will be found the advertisement of the Bennett & Millett Co., of Gouverneur, N. Y., who will use our columns again this season in soliciting the poultry trade. These people are the manufacturers of the celebrated Pioneer Clover Meal which has done so much to increase the earning power of the American hen in the recent past. We are well acquainted with this product and have no hesitancy in recommending it to our patrons as a cheap and most efficient poultry food. It possesses particular advantages as a winter food, taking the place of the grass and other green food so largely consumed by fowls in the summertime, and producing equally good results in the depth of winter. It is rich in all the elements necessary to egg production and will make the hens lay in the coldest weather when eggs are worth the most money. Write them for free sample and book of editorial endorsement. Please mention that you saw their ad in THE FEATHER.

SOME HINTS REGARDING POULTRY AND INCUBATORS.

Many farmers have looked upon poultry raising as a matter of small importance, and the hens they kept were treated accordingly. Not a few are coming to realize the mistake in that way of figuring. If you have a desire to become better acquainted with your chickens and their value, commence Nov. 1st, and each day, from that date until May, keep a record of all poultry and eggs sold or used at home. If you have not the time, turn this small book-keeping account over to the little son or daughter, as it will prove to them an interesting lesson along the line of commercial studies, and the figures will reveal to you a number of big, round dollars saved.

The lack of attention given this matter is because the sales are small, often amounting to only a few cents, and in many cases, exchanged for groceries. The farmer thus slights his poultry as of trifling account. If a statistician would calculate the amount of cash expended for these products, some people would be astonished to see what an important part of our industrial economy the hen is taking. The poultry business has awakened into new life during the past few years, and the well-built, substantial, and convenient poultry-house is fast taking the place of the old shack which has served its owner so faithfully as a breeder of lice and roup.

It is safe to presume that no subject connected with this industry is receiving wider attention than the incubator and brooder, and we believe that no firm manufacturing that line of goods has become more favorably known than the Des Moines Incubator Co., and that, too, in a comparatively short period. This firm reports the following sales made during the past season. In each case the buyer first purchased one machine and gave it a test before placing an order for a greater number: L. G.

Fisher, proprietor Chatham Fields Farm, Chicago. 24 300-capacity incubators and 20 200-capacity outdoor brooders. M. Hardsocg, Proprietor Iowa Poultry and Supply Co., Ottumwa, Ia., 22 300 and 2 200-capacity incubators. J. W. Darby, Greenfield, Ia., 15 300-capacity incubators. C. F. Newman, Rossville, Staten Island, N. Y., 8 300 and 4 200-capacity incubators.

Besides these large orders, a great many foreign shipments have been made, including one to Bombay, India, one to Sidney, New Zealand, and an outfit weighing 700 lbs. to Roumania, Europe.

It is very apparent that this concern is making rapid progress toward the top round of the ladder of incubator fame, and if any of our readers are expecting to adopt the artificial way of raising poultry, it would be to their interest to correspond with the Des Moines Incubator Company, Des Moines, Iowa.

INCREASES EGG PRODUCTION.

One of the newest and most valuable machines introduced for poultrymen's use, is the Evans Vegetable and Root Cutter, of Ypsilanti, Mich. It is designed to cut all kinds of roots and vegetables into chicken feed. This is just the sort of food that increases and keeps alive egg production—it is like the tender green grasses of the fields in summertime. Every poultryman should feed green foods the year round, especially in winter, when vegetation is dead, carrots, mangels, roots, potatoes, turnips, cabbage, etc., should be fed in plenty to further the production of eggs. The Evans Cutter is, and will be found by all who use it, a very valuable machine for preparing this class of food for poultry. Besides it is cheap, selling from \$1 to \$9. See their new ad in this number of *THE FEATHER* and write for circulars and prices.

THINKS IT IS VERY GOOD.

C. G. Pentz, Fostoria, Va., writes: "The Plymouth Rock eggs I purchased from Chas. L. Blanton, Falls Church, Va., hatched out seventy-five per cent, which I think is very good, when we consider the extreme hot weather and long-continued drought. The chicks are healthy and doing well." Mr. Blanton has some good birds and has been very successful so far this season. He began showing at Marlboro, Md., last month, winning as follows: 1st pen White Wyandottes; 1st pen, 1st cockerel, and 1st pullet, Black Minorcas; 2d pen, 2d cockerel, and 1st pullet, Barred Plymouth Rocks; 2d cockerel, Indian Games.

CERTIFICATE OF SALE.

This is to certify that we have this day (Sept. 2, 1898) sold and shipped to Arthur J. McCain, of Mt. Hermon, N. J., the Buff Leghorn hen winning first honor at Madison Square (N. Y.) in 1898, also cock (winning as cockerel) first honor at Mt. Gretna and Johnstown, in 1897, and second at Pittsburg, in 1898; also a pair of our very best early-hatched chicks, birds of high quality.

ARMBRUST BROS.,
Armbrust, Pa.

A TESTIMONIAL.

CROTON FALLS, N. Y.,
August 10, 1898.

STAR INCUBATOR AND BROODER CO.,

GENTLEMEN: In reference to the "Star" I beg to state that I have given it a thorough test, running it from

March to July, which took me through the wet and dry seasons as well as the cold and hot seasons, and it has hatched all the hatchable eggs as good as a hen, and without a drop of artificial moisture. I noticed one thing in favor of the "Star" and that is the chicks come so strong that there is little or no mortality amongst them. Never in the past six years have I raised so many of the ones hatched as this season.

Next winter I shall get a 220-egg size "Star." Wishing you the success you so justly deserve, I am,

Yours most truly,
E. P. SHEPHERD.

A COMPLETE CATALOGUE.

The poultry business has been gaining so very rapidly in the estimation

and appreciation of the public in the past few years that we always feel like pointing out anything of special advantage to that industry. In another column of this issue of *THE FEATHER* will be found the ad of the Harvey Seed Co., of Buffalo, N. Y., who are dealers in all kinds of poultry supplies. It will be noticed from the ad that they are sending out a complete illustrated and descriptive catalogue free of charge. It would be well to secure a copy of this book before laying in your winter's supplies for the poultry-yard. Please say that you saw the ad in our paper.

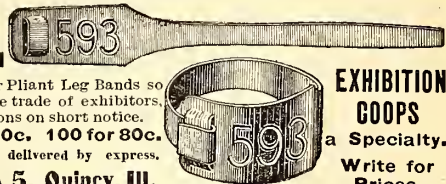
The Franklin County Poultry and Pet Stock Association will hold a show in Ottawa, Kansas, January 17-20, 1899. J. W. Wale, judge. L. L. Porter, Sec'y.

RELIABLE COPPER Pliant Leg Bands.

We have REDUCED THE PRICE of these Copper Pliant Leg Bands so they are in reach of one and all. We are soliciting the trade of exhibitors, large and small, and can furnish to Poultry Associations on short notice.

Prices of Leg Bands—12 for 20c. 50 for 50c. 100 for 80c. 500 for \$3.50, 1000 for \$6.50, post paid or delivered by express.

Reliable Incubator & Brooder Co. Box A 5, Quincy, Ill.



EXHIBITION
COOPS
a Specialty.
Write for
Prices.

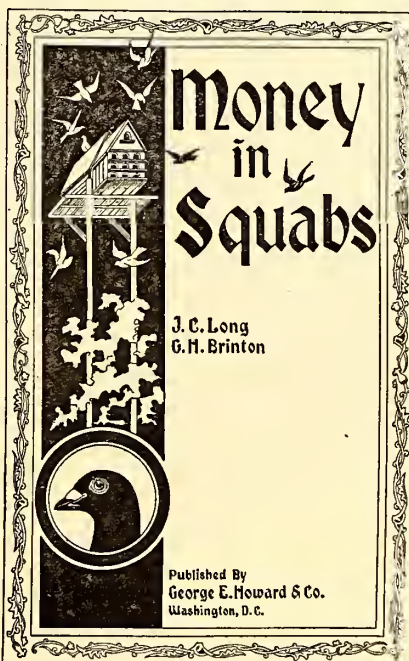
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THE SECOND
EDITION OF

MONEY IN SQUABS

By J. C. LONG and G. H. BRINTON,

PROFUSELY ILLUSTRATED.



It is the Handsomest as well as the most Practical Book Published on the Subject.

It has also been Profusely Illustrated with new and original drawings.

Price 50 cents postpaid.

The Book Contains Chapters on

Breeding Houses, Breeding Stock, Food and Feeding, Water, Salt, Nesting Material, Breeding and Management, Dressing Squabs for Market, and Diseases.

Some of the Illustrations are

Full page drawings of Homers, Runts, Dragons, and Duchesse Pigeons, Plans of Single, Double, and Continuous Houses for Breeding Squabs, arrangement of Aviaries to a Garret Room and to a Barn, Plans for Building a House in the Back Yard, Plans of Nests, Perches, Mating Boxes, Bath Tubs, Drinking

Fountains, Salt-cat and Grit Boxes, etc., etc. The Book is thoroughly practical, reliable, and of untold value to all who are interested in raising pigeons for profit or pleasure. The book will be sent on receipt of price, 50 cents, or given free for two new subscribers to *THE FEATHER* at 50 cents each. Address,

GEORGE E. HOWARD & CO.,

504 11th Street N. W.,

Washington, D. C.

Classified Advertisements

Fully prepaid advertisements of thirty words or less inserted under this heading at the following rates:

One time.....	\$.50
Three times.....	1.00
Six times.....	2.00
One year.....	3.50

READ CAREFULLY.

Copy may be changed as often as desired, though we advise running a standard ad. when possible, in order that buyers may become acquainted with it. Length of ad. is not limited, but additional words will be charged at the rate of 1½ cents each for one insertion, or 1 cent each for each insertion when run three times or more. Initials and figures count as single words.

PLYMOUTH ROCKS

BARRED PLYMOUTH ROCKS—Our stock has been noted for years for its deep, rich, clear zebra barring, so beautiful in the show room, and much sought after for the breeding yard; and we have youngsters coming on of rare beauty in great profusion. Prices to suit all. F. J. MARSHALL, Middletown, Ohio.

BUFF PLYMOUTH ROCKS ONLY.

When "Old Glory" proudly floats o'er Porto Rico. When Cuba "Queen of the Antilles" rises free, You can easily meet and pay the heavy taxes, By breeding Burdick's "Nuggets" don't you see?

My yearly sale now open. One hundred yearling hens; twenty-five yearling cocks; over four hundred youngsters; my prices reasonable; quality governs; birds from \$2 up. I will try to make you all happy. Write letters to H. S. BURDICK, Rome, N. Y.

THE EARLY BIRD CATCHES THE PRIZE.

January, February, and March-hatched chicks for the Fall shows a specialty. Buff, Barred, and White Plymouth Rocks, Brown and White Leghorns, and Black Minorcas; bred from 1st prize winners for years at Mt. Gretna, Washington, and New York. Prices reasonable. Write. J. W. BRUCKART, Lititz, Pa.

WHITE PLYMOUTH ROCKS exclusively.

Won 1st on pen at Washington, D. C., in Feb'y and at Rockville, Md., in Aug., 1897. Stock for sale at reasonable prices. Eggs in season. J. F. DEFANDORF, Garrett Park, Md.

TWO B. P. ROCK COCKS for sale, each a winner as cockerel last season, one at Charlotte, Lambert, judge; other at Shelby, Marshall, judge. Eggs when you want them. B. S. DAVIS, Asheville, N. C.

WILSON BROTHERS' BUFF PLYMOUTH

Rocks. Hundreds of growing chicks from which to select for Fall and Winter shows. Write describing precisely what you want, and see what we can do for you. Best guarantee of satisfaction is that you can have your money back if you want it. C. G. & P. WILSON, Sag Harbor, N. Y.

BUFF PLYMOUTH ROCKS EXCLUSIVELY.

"Pure Burdick strain." Fine breeding and exhibition stock for sale after Sept. 1st. Prices reasonable. Eggs, \$2 per 13. VERNON K. DAYHOFF, Chewsville, Md.

FIRST-PRIZE BUFF ROCKS FOR SALE.

Saratoga, 1894-'5-'6 and '8, 4 firsts, 2 seconds, on 6 entries, Northup, Judge, Troy, '96, Rochester, '97. Lemon-buff, pure under-colored birds \$2. Exhibition birds especially. Satisfaction guaranteed. N. V. WITBECK, Burnt Hills, N. Y.

JAS. S. WARNE, Washington, N. J., two fine pens of yearling Buff P. Rocks for sale, these are my breeders and they are fine. Young birds for sale; some prize winners.

OVERBAUGH'S BARRED PLYMOUTH

Rocks. Won at Mt. Gretna, 1898, 1st and 2d cock, 1st and 4th hen, 3d cockerel, 3d pullet. \$5 gold special, and Pennsylvania State Poultry Association's bronze medal for best display. Hanover, Pa., 1st and 2d pair of fowls, 1st and 2d pair of chicks, and 2 specials. Young stock for sale. W. H. OVERBAUGH, JR., Hanover, Pa.

LEGHORNS

CEDAR HILL POULTRY FARM—Write to Cedar Hill Fruit and Poultry Farm for prices on Single Comb Brown Leghorn, Barred P. Rock, Buff Cochins and Light Brahma fowls and eggs. Some fine surplus cockerels of first-named breeds for sale low. Eggs for incubator use \$5 per 100; good common eggs (large breeds), \$2.50 per 100. R. S. COLE, Harman, Md.

FORSYTH STRAIN S. C. BROWN LEGHORNS. 12 prizes on 10 entries at Rochester, 1897. Fine young and old stock for sale, cheap, that will score into the 90's. Write wants.

FRANK G. RICE, Dansville, N. Y.

PLEASANT VIEW POULTRY YARDS.—R.

C. Brown Leghorns. They have won prizes at all the leading shows. Have some fine cockerels and pullets and this season's breeders for sale; birds are strong and healthy and have free range of farm. Prices low. W. G. FRONHEISER, Prop., Pottstown, Pa. Address, J. B. HOFFMAN, Mgr., Sanatoga, Pa.

WAYNE POULTRY YARDS.

Coatesville, Chester Co., Pa., J. H. SCHERER, Prop. S. C. B. Leghorns exclusively—Winners at the following shows in 1897: Pottstown, Pa., Scranton, Pa., Mt. Gretna, Pa., Carlisle, Pa., Seneca Falls, N. Y., Sanatoga, Pa. Eggs, \$1 per setting. Stock for sale. Postal for circular.

SINGLE COMBED BROWN LEGHORNS.

Ninth season. Single birds, pairs, trios, or pens for sale. Also a few Cornish Indian Game cockerels. HOWARD A. PINNEY, Sheffield, Warren Co., Pa.

BROOKLAND POULTRY YARDS.

Brookland, D. C. Single Comb Brown Leghorns and Buff Plymouth Rocks exclusively. Get prices, very low. Choice stock and eggs. Send stamp. ROLAND C. BOOTH, Manager.

MT. GRETNA, 1898, MARBURGER'S BUFF

Leghorns, Barred and Buff P. Rocks, won their share of 1st, 2d, and 3d prizes. Won 1st and 2d on Buff Leghorn pullets in the strongest class we ever saw. My last previous exhibit of Barred Rocks, Mt. Gretna, 1896, won 1st cock and cockerel. This is sufficient proof that I breed the stuff you want. Will ship on approval at right prices. State what you want. A. W. MARBURGER, Denver, Pa.

BRAHMAS

CHOICE UP-TO-DATE STOCK of Light

Brahmas, Single Comb Brown Leghorns, and Barred Plymouth Rocks. Eggs, \$1 per 13. Stock for sale. Satisfaction guaranteed. If you wish high quality and fair treatment, address, J. M. PORTER, Morristown, N. J.

CHESTNUT GROVE POULTRY YARDS

JOSIAS J. GEORGE, Proprietor. Yards at Jenkins P. O., Long Green Valley, Baltimore Co., Md. City address, 443 North Street, Baltimore, Md. "Autocrat" strain Light Brahmas. Early-hatched cockerels and pullets for sale. Cockerels, \$3 to \$5; trios, \$5 to \$8. Yard headed by cockerel 1st prize at Washington, 1897.

STEPHEN SPENCER, Morris Plains, N. J.,

will offer eggs from high-class Light Brahmas and Buff Cochins, balance of season, at \$2 per 13; \$5 per 3 settings. I have bred America's best for nearly 20 years. Exhibition and breeding stock for sale. Cockerels at low prices. Write for particulars. Mention The Feather.

L. H. MORSE, Newark, New York, originator

and breeder of the celebrated Imperial strain of Light Brahmas, unsurpassed for their great size, grand shape, superb color, fine comb, profuse middle-toe feathering, and superior laying qualities. The Imperial Light Brahmas are the result of careful study in mating for finest points, without detriment to utility. They have been bred continuously since 1881, and are a vigorous, prolific strain, possessing perfect Brahma character according to the Standard of Perfection. First-class birds for sale reasonably. Eggs, \$2 per 13. Satisfaction guaranteed or money refunded.

GAMES

CHAS. T. CORNMANN, Carlisle, Pa., breeds all

varieties of America's best Games, Game and Variety Bantams. If you do not believe it, look up the awards at the great shows. Eggs in season. Stock for sale. Send for price card.

FINEST GAMES ON EARTH. Circular free.

Irish Black Reds, Heathwoods, Irish and Mexican Grays, Cornish Indians, and Rouen Ducks. Buy now and save money. Mention The Feather. C. D. SMITH, Fort Plain, N. Y.

WYANDOTTES

GOLDEN, PARTRIDGE, and BUFF WYANDOTTES.

My yards now contain McKee's best yards, bought from his widow. My own have always won at Mid-continental, Kansas and Nebraska State Shows. Stock and eggs for sale. Send for catalogue. W. A. DOOLITTLE, Sabetha, Kansas.

BUFF AND WHITE WYANDOTTES.—Winners

of 1st prizes at Hagerstown, 1894 and 1896; Reading, 1895; Baltimore, 1895; Cleveland, 1895; West Chester, 1895, 1896, and 1897; Plainfield, 1896; Pittsburgh, 1896; Washington, 1896 and 1897; Mt. Gretna, 1897. Choice breeding and exhibition stock for sale. A. P. GROVES, Chestnut Hill, Philadelphia, Pa.

MURRAY HILL POULTRY YARDS.

White Wyandots, White Plymouth Rocks, Ringlet Barred Plymouth Rocks direct from E. B. Thompson. Stock and Eggs for sale. Satisfaction guaranteed. C. B. WIGGINS, Greenport, Suff. Co., N. Y.

SILVER WYANDOTS EXCLUSIVELY.—

Winners and layers; healthy, vigorous stock. March and April hatches now being ordered. Prices reasonable. Satisfaction guaranteed. Write. J. M. HAMBLIN, HIGHLAWN FARM, Vienna, Fairfax Co., Va.

COCHINS

H. A. LOGUE, Hagerstown, Md., Buff Cochins exclusively. Winners every time. Look up our record at Mt. Gretna, Carlisle, and Hagerstown in 1895, '96 and '97.

NATHAN R. RAMBO, West Chester, Pa.

Buff Cochins, winners at Mt. Gretna, West Chester, and other shows. Early cockerels and pullets for sale at reasonable prices.

MINORCAS

BLACK MINORCAS EXCLUSIVELY.

(North-up strain). By importing new blood in my breeding yards every year my birds are kept up to the highest standard of perfection. Stock and Eggs for sale. Hatch guaranteed. E. D. CROUCH, 1013 G Street, S. E., Washington, D. C.

NORTHUP'S 1898 MINORCA catalogue, the

most complete ever published in descriptions, prices, 1,000 winnings, new pictures of buildings and fowls, contains much information fully indexed under 60 headings. Rose and Single Comb Minorca eggs guaranteed to hatch regardless of distance. GEORGE H. NORTHUP, Box 307, Raceville, N. Y.

GLENN H. JOHNSON, Groton, N. Y., is com-

pelled to reduce young and old stock of White Minorcas and White Wyandottes to make room in winter quarters. Prices low considering quality.

FORGING AHEAD. SPENCER'S SINGLE

and Rose Comb Minorcas cleared the deck at the Cambridge Valley Fair; four firsts, six seconds, three thirds, the third season they have been winners. MARK SPENCER, North Salem, New York.

POLISH

POLISH. S. F. Gulliford, Akron, Ohio. Im-

porter and breeder of White Crested Black, Bearded Silver, Bearded Golden, and Bearded Buff Laced Polish, also Silkies, of the finest quality. It has been my aim for many years to breed these beautiful fowls to the highest standard of perfection. My show record stands as evidence. Birds for sale at all times and eggs for hatching in season.

POLISH. CHAS. L. SEELY, Afton, N. Y., the

veteran breeder of White Crested Black and White Crested White Polish, offers extra fine chicks, single birds, pairs, and trios at living prices. Write for show record, and state just what you want.

LANGSHANS

BLACK LANGSHANS EXCLUSIVELY.—

Fine, large, vigorous stock, good color and true shape. A limited number of settings from best breeding pen at \$3 per 15. A. M. CORDRAY, 752 Carroll Ave., Waverly, Baltimore, Md.

F. C. BEACH, Plain City, O., breeder of Black

Langshans exclusively. Eggs, \$1.50 per 13. Scored and unscored birds for sale this Fall.

BANTAMS

WHITE COCHIN BANTAMS, Black Cochins

Bantams, Buff Cochins Bantams—Young stock for sale bred from New York and Boston winners. No circulars. No eggs. DR. WM. Y. FOX, Taunton, Mass.

HOW IS THIS? Washington, Hackensack, El-

mira, and West Chester, Hartford, Boston, and New York, 30 entries, 34 prizes on Silver Sebright Bantams. Stock for sale. Sell no eggs. A. C. TREICHLER, M. D., Elizabethtown, Pa.

AT WASHINGTON, D. C., 1898, won 15 prizes

on 15 entries, on Golden and Silver Sebrights, Silkies, Bearded and Non-bearded White Polish, Buff, White, Black, Partridge, and Cuckoo Cochins, Brown Red, Red Pyle, and Birchen Game Bantams. No eggs. Stock for sale. W. W. WALLICK, York, Pa.

GOLDEN AND SILVER SEBRIGHT, BLACK

Rose Comb, Silky, White Crested, White Polish, White, Black and Black Tailed Japs, Buff, Black and White Cochins Bantams; Fantails, Whit Colored, Saddles, Tails and Splashes. Write for wants. My prices are low. Stock first class. IRVIN S. MILLER, 397 Chew St., Allentown, Pa.

\$1 EACH, GOLDEN SEBRIGHT BANTAMS,

scoring 90%; also first-class Houdans. HARRY MILLER, Box 27, Deerfield, Ill.

OVER 100 LITTLE GRAINS OF GOLD
Strain of Buff Cochins Bantams for sale at from \$1.50 to \$5 each; all are nice clear buff color, true Cochins shape, bred from winners and will breed winners. This is one of the most popular strains of Buff Pekins now bred. Remember I could not half supply the demand for these little beauties last year. Will not sell a cull at any price. I guarantee satisfaction or money cheerfully refunded. Have the finest birds I ever raised now for sale. Correspondence cheerfully answered. L. L. LUCAS, Oil City, Pa.

W. J. GREENMAN, Cortland, N. Y., wishes to close out his entire stock of Bantams, including some of the best birds that England and America ever produced. He has about 800 young Bants and 200 breeders; and you people that want up-to-date stock better write him at once. Every Bantam breeder in America that reads the show reports will tell you what kind of stuff he breeds.

AMERICA'S BEST GOLDEN AND SILVER
Sebright, Buff-Laced and White Polish and Black Cochins Bantams. The choicest New York winners. Illustrated circular containing winn-ings free. C. H. PROPER, Edmeston, N. Y.

SPANISH

BLACK SPANISH—1st and 3d Madison Square, 1st and 3d Rochester, and 1st, 2d and 3d Wilkes Barre, in 1898. None better. Also breeders of Brown Leghorns (Howell and Forsyth stock). Eggs, \$1.50 per 13; \$2.50 per 26. Satisfaction guaranteed. J. W. RAEDER & SON, 57 Ross St., Wilkes Barre, Pa.

DORKINGS

COLOR DORKINGS, from imported stock. Early-hatched chicks and old stock for sale for the fall shows. First premiums at Madison Square, Buffalo, and Rochester. MISS LIZZIE GOODELL, Canastota, N. Y.

DUCKS

\$1 EACH. We have 300 Imperial Pekin Ducks, Rankin and Newman stock, to sell as breeders. Address, PLEASURE POULTRY YARDS, Marysville, Pa.

RANKIN AND POLLARD PEKIN DUCKS direct. Fine large stock \$1 each. Toulouse Geese from prize winners \$2 each. Belgian Hares \$1.50 per pair. C. L. McFERRIN, Darlington, O.

RABBITS

CHAMMERSCHMIDT, Buffalo, N. Y., head-quarters of the large Belgian Hares, bred up to standard and large size. Old and young for sale cheap. Write to me before buying elsewhere. Mention The Feather.

FANCY PIGEONS

DR. CHAS. H. A. MEYER, 1033 N. Caroline St., Baltimore, Md., breeder of prize-winning English and African Owls, Satinets, Blondinettes, Bluettes, and Turbits. Winners at all leading shows.

G. A. FICK, 1300 N. Washington Street, Baltimore, Md., breeder of prize winners, Magpies and Swallows in all colors. Prices reasonable considering quality of stock.

150 WHITE FANTAILS at \$2 and upwards a pair. If you want White Fans of any grade write me. E. A. HOLBROOK, Winchester, Mass.

BLACK FANTAILS. One pair of elegant Fans at a rare bargain. Cock very stylish, elegant tail. Winners of first and cup at Springfield, and winner of first at Peoria. A fine hen for a mate. The pair only \$5. W. J. LINCOLN, Mt. Pulaski, Ill.

DR. BEUST, New Albany, Indiana, offers at rare bargains high-class English Carriers, Jacobins, Archangels, Satinets, Blondinettes, also Gold Pheasants, B. Cochins Bantams; and thoroughbred female Fox Terriers. Stamps for reply.

EXHIBITION WHITE POUTERS. My birds take the leading prizes at the largest shows, Boston, New York, Louisville, etc. A few grand birds for sale. Catalogue ready Oct. 1st. Send postal. SAM. L. SMYTH, 826 River Street, Troy, N. Y.

FOR SALE. Fantails, Jacobins, Turbits, Pouters, Carriers, Trumpeters, Magpies, Swallows, Long-muffed and Clean-legged Tumblers, Nuns, Highfliers, Homers in all colors. Stamp for reply. GEO. SCHRADE, Sykesville, Md.

YELLOW WING TURBITS, White Dragons, Yellow Silver Owls. Finest stock. Prices low to reduce stock. Large squab-breeding Homers, 75c a pair upwards. C. M. SMITH, JR., Perry Street, Johnstown, N. Y.

C. W. MATTHIAS, 1002 Lincoln St., Milton, Pa. Spanish-American War has reduced prices greatly. Closing out sale of fancy pigeons; Pouters, Jacobins, Swallows, Magpies, Fantails, Blondinettes, Owls, Turbits, Outside Tumblers, Baldhead Tumblers, \$1, \$1.50, \$2, and \$3.

HOMING PIGEONS

ROYAL RED SEAL LOFTS, 1357 Wilson Ave., Cleveland, Ohio; breeder, importer, and flyer of the speediest strains of Homing Pigeons exclusively. My annual catalogue, containing pedigrees of 30 pairs of choice breeders mailed on application. Stamp if convenient. A grand lot of record breeders for sale.

HOMING PIGEONS mated for flying or squab breeding. \$1 and \$2 per pair. Books on Breeding and Training 25 cents (stamp); Money in Squabs, 20 cents; Pigeon Queries, 25 cents; Dogs, Rabbits, Cage Birds, Poultry, 10 cents each. Seamless and open aluminum leg bands, pedigree blanks and cards. Catalogues free. F. L. HOOPER, Station D, Baltimore, Md.

VERDEMONT HOMING LOFTS. A choice lot of speedy and reliable young Homers for sale cheap. All have been trained. Bred from record birds from a number of the most noted strains. Pedigrees given and satisfaction guaranteed. Write for particulars. C. E. BIRELY, Prop., Ladiesburg, Md.

HOMERS—Bred from record stock from the best lofts in this country. At only \$1 per pair either old or young. Satisfaction guaranteed. W. J. LINCOLN, Mt. Pulaski, Ill.

MISCELLANEOUS

P. R. BARTRAM, Fredonia, N. Y., breeder of Barred Plymouth Rocks, White Wyandottes, Black Langshans, and Black Minorcas in their purity. Eggs in season and birds for sale at all times at low prices. Write for what you want. Secretary Fredonia Poultry Association.

WON AGAIN! West Virginia State Fair 1897 I got 3 first and 1 second out of 4 entries, Barred and Buff Rocks, S. C. B. Leghorns and S. C. Black Minorcas (Northrup strain). Stock for sale. Stamp please. J. J. CHARLIER, McDonald, Pa.

LIGHT AND DARK BRAHMAS, Buff Cochins, S. S. Hamburgs, 2 pens Pit Games, 4 Indian Game hens, Black Minorcas, and Buff Leghorns for sale. Black, Red, and Yellow Magpies, and Blue Beards. Will exchange for poultry. A. C. FULTON, York, Pa.

BARGAINS!!! Barred Plymouth Rock hens, or young stock, \$2 per pair; \$5 per six; \$10 per fourteen. Narragansett Turkeys and Pekin Ducks. Enclose stamp. F. K. W., PLEASURE POULTRY YARD Opekiska, W. Va.

LIGHT BRAHMAS, Barred and White Rocks, R. C. W. Leghorns, W. C. B. Polish, B. B. R. G. Bantams, P. Ducks, Bronze Turkeys, W. Guineas, W. C. Fan Pigeons, Belgian Hares, Ferrets. E. F. TIFFANY, Brooklyn, Pa.

COUNTY LINE POULTRY YARDS, breed the choicest strains of Light Brahmans, Barred and White Plymouth Rocks, S. C. Brown Leghorns, Mammoth Bronze Turkeys, Toulouse Geese, and Rouen Ducks. Stock for sale. Eggs in season. Send for price-list, with prizes won. A. G. BARLOW, Millers, N. Y.

A. W. SCHULTZ, 542 Hellertown Ave., South Allentown, Pa., breeder of Buff, White, and Black Pekins, W. C. W. Polish, and Sebright Bantams. Eggs and stock for sale.

EGGS FOR HATCHING. Strictly pure-bred W. Wyandottes and W. P. Rocks, 500 grand birds with average egg production of 200 each, per year. Price of eggs, \$1 per 13, \$4 per 100. WEEKS & THOMPSON, Peterboro, N. H.

SHERWOODS—The Ideal Fowl—for fancier, farmer, or market, the hardest and best general purpose fowl ever introduced. My stock is from originator of breed, therefore pure. Prize winners at Hamilton. Eggs in season. Circular free. DR. CHARLES B. TURNER, Snickersville, Va.

J. R. PIPER, JR., 10 Market St., Morristown, N. J.—Prince of America's Light Brahmans and Silver Laced Wyandottes. Piper's Celebrated Games of many varieties, also other kinds of stock for sale. Eggs, \$2 and \$3 per setting. Write.

35 PRIZES including first on White Eggs at Boston, 1898. B. Minorcas, B. P. Rocks, W. P. Rocks, White Wyandottes, and Black Langshans. Eggs, \$2 per setting. Circular. W. T. GREENE, Hopkinton, N. H.

BUFF LEGHORNS, BARRED PLYMOUTH Rocks, Whaleback Games, cockerels and pullets for sale cheap. Also breeding pen of Golden Wyandottes for sale. Extra fine birds, Satisfaction guaranteed. LOUIS SCHWEIZER, Bangor, Mich.

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The only unfailing remedy for Roup, Colds, Canker, Catarrh, Asthma in Poultry, Pigeons, Song Birds, and "Going Light" in Pigeons. Now is the time to keep this on hand; in case your Poultry show any signs of the above diseases, you have it for immediate use. Price 25c and 50c per box postpaid. For sale by Excelsior Wire & Poultry Supply Co. Sole agents for New York and vicinity, 28 Vesey St., New York City.

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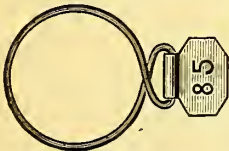
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Can not lose off, and are easy to put on or remove without tools.

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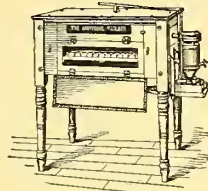
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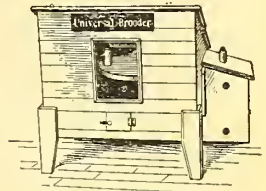
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First Prize Cock at New York.

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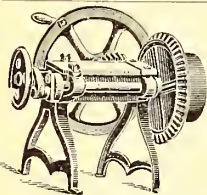
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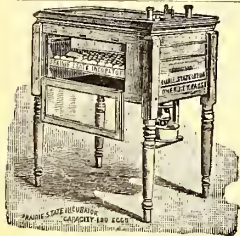
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Won 67 prizes at Fall River, New London, Buffalo, and Boston. Our stock consists of Buff Wyandottes, Buff Plymouth Rocks, Buff Leghorns, Buff Cochins, Rhode Island Reds, Barred P. Rocks, and White Leghorns. Also Buff, White, and Black Cochins Bantams. We have about 2,000 birds old and young. If there is anything wanted write and see what we can do for you.

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Our **BROWN LEGHORNS**

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At Boston, 1st yard and 1st cock.

Elmira, Five 1sts and Nine 2ds and 3ds.

We also sold thirty birds that were winners for our customers at large winter shows.

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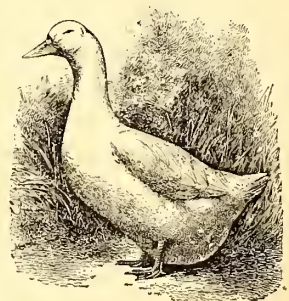
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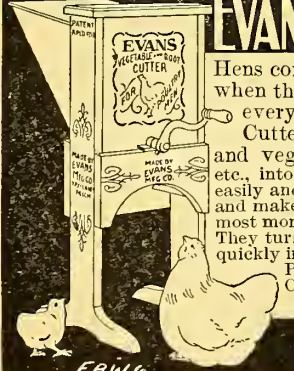
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1 Solid Buff Leghorn cock (a winner)	\$8 00
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Cornish Indian Games**

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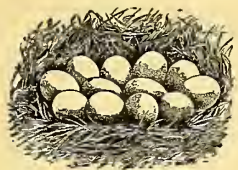
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It's a pleasure to us to answer correspondence.

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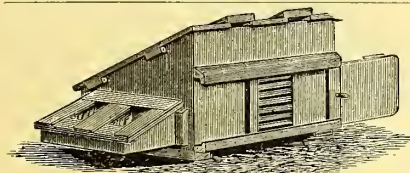
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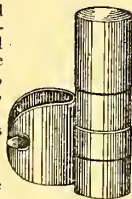
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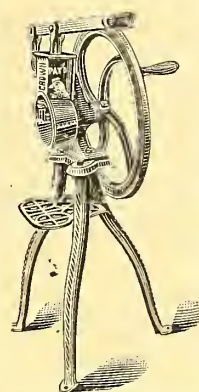
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With deep keels, but they don't say anything about BLACK ON BEAN.

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500 young birds for exhibition and breeding purposes. 100 yearling hens and cocks for sale. Write describing just what you want. Send for show records, testimonials, etc.

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Satisfaction guaranteed.
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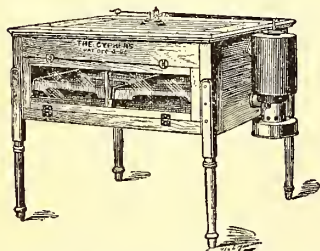
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Cut all kinds of green and dry bone fast, fine and easy.

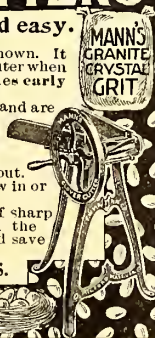
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As good as any one else's stock for show or large quantity and large size of eggs.

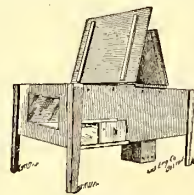
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Will care for 100 Chicks until they are old enough to go to the roost; the simplest, cheapest, and best brooder made. Circular free.

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On account of a change in business it will be impossible for me to breed any birds after this season so I am selling my birds at a sacrifice.

1 yearling cockerel, score 95 points, \$15, this bird will win in strong company.

1 yearling cockerel, a good breeding bird, \$5.

1 hen, score 95½ by Sharpe Butterfield, \$10.

1 hen, H. C. as pullet at the last Washington, D. C. show, \$6.

10 other yearling hens at \$1 to \$3 each.

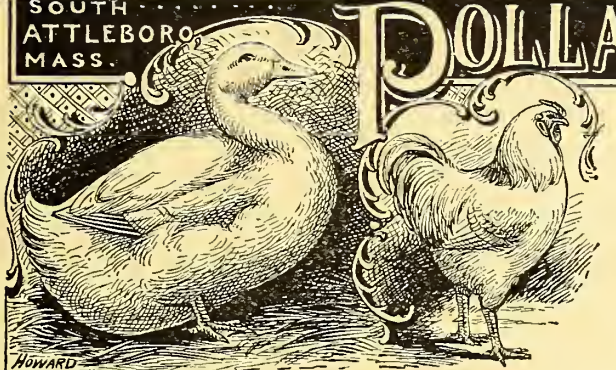
Special prices on the lot. Orders for young stock taken now for Fall delivery.

Write at once.

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....POLLARD'S....

Pekin Ducks, White Wyandottes, and White Rocks,

Are money makers. Our Pekins the past Winter won on 6 entries at Madison Square Garden, 1, 2, and 3 on both duck and drake. At Hagerstown, Md., a clean sweep of all Pekin prizes. At R. I. Poultry Show 15 regular and 8 special prizes on 16 entries, (losing 4th on old drake). At R. I. State Fair clean sweep. Eggs, \$2 per 12; \$5 per 50; \$8 per 100.

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Only Duck Farm in New England advertising where premiums are won.

FORTUNE KNOCKS ONCE AT EVERY MAN'S GATE.

<p>Eggs For Hatching</p>	<p>Cornish Indian Games, Babcock. Light Brahmas, Felch. Buff Plymouth Rocks, Burdick. Barred Plymouth Rocks, Thompson. Pekin Ducks, Rankin & Pollard.</p>	<p>Selected Stock at Reasonable Prices.</p>
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Send for circular showing Records.

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Pure **Burdick Strain.** **Trafford's Buff Rocks** Win for his Customers.
This season's breeders for sale now at a sacrifice to make room. Grand lot of early chicks Sept. 1st. Satisfaction guaranteed or stock may be returned and money will be refunded.
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STUCKEY'S BUFF PLYMOUTH ROCKS...

Are Birds of highest quality also prize winners in high society and high scoring. My breeders and young birds for sale at great bargains if taken early.

FANCY BUFF LEGHORNS...

No better East or West than some of my Prize Winners. Also White Rox. Now is your chance to get good birds. Don't fail to write if you want good stock. Address,
C. J. STUCKEY, Lincoln, Ill.



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Winners at Mt. Gretna, 1897, Rochester, 1897 and 1898. A grand lot of youngsters which were bred from the above winners will be ready soon.

PLYMOUTH ROCKS

Some good ones coming along that will be heard from later.

If you are after **BUFFS** write now and get first pick. Correspondence a pleasure.

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1879. **O. K. POULTRY YARDS.** 1898.

**Black Langshans,
Black Langshan Bantams.**

750 Birds For Sale. 31 first premiums won by customers out of 32 tried for in three years.

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Lock Box X, S. Portsmouth, R. I.

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TO CROW LOUD AND LONG.

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For sale later at reasonable prices for A No. 1 Birds.

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Spratts Patent's Antiseptic Soap.

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Manufacturers of all kinds of

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Bone Meal, Granulated Bone, Crushed and Granulated Oyster Shells and Charcoal, Lime-stone, Grit, Bone Mills and

Everything For The Poultry Yard

For Sale at Reasonable Prices.



THE CROWN BONE CUTTER

We are now offering as a specialty a new Bone Cutter—The Crown—at the exceptionally low rate of

**\$6.50 with Balance Wheel (without stand)
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3100 Cup for Best Leghorn Cock
Hen, Cock & Pullet
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ROCKS Buff and White.

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Eggs for Hatching, \$2 per 13.

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Wins at the Fall Fairs.

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Has a thousand early-hatched, well-matured chicks ready to win in September. Also 800 yearlings at moderate prices.

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WHITE WYANDOTTES.

My birds have won more prizes at the leading shows of America and England than all others. My 1898 matings have proved a grand success. At the Great National Show, WASHINGTON, D. C., December, 1897, in hot competition with over 300 birds of these varieties, the best that could be found regardless of price, I won 45 Regular and Special prizes on 39 Entries, including First Prize on Breeding-Pen in each variety, Special for Best Display in the American Class, Special for Best Exhibit of Plymouth Rocks, Sweepstakes Special for Best Cockerel in the Show (Bantams excluded), and this on my First-Prize Barred P. Rock Cockerel. My winning White Wyandotte cock was pronounced by the judges to be the best they had ever seen. I won twice as many first prizes as all other exhibitors of these varieties. My customers are winning all over the country. Hundreds of Choice Exhibition and Breeding Birds at honest prices. Catalogue of America's finest P. Rocks and Wyandottes free.

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"NEW YORK CHIEF."

1st Ckl. N. Y. City, 1897.
1st Cock N. Y. City, 1898.

Sec'y and Treas.



Golden Rod Buff Plymouth Rocks.

Only a few breeders left; three good breeding cocks (yearlings) among them. 350 chicks, produced by the winners at Buffalo, Mt. Gretna, Elmira, Toronto, and other places the past season, are now roaming in the fields and under the trees.

They will be ready for you after September. Write.

Send 2-cent stamp for club catalogue.

W. C. DENNY, Rochester, N. Y.

THE "RINGLETS" SOAR STILL HIGHER

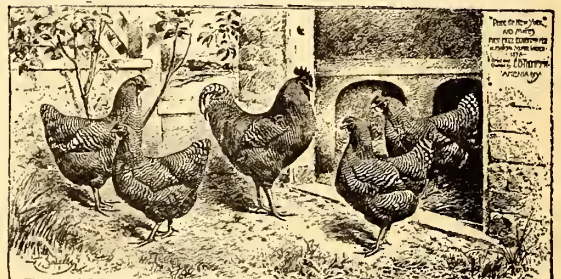
AT NEW YORK, FEBRUARY, 1898,

E. B. Thompson's Barred Plymouth Rocks,

Again won all the Sweepstakes cups and Trophies, including the Superb Challenge Trophy, value \$100, for best cock, cockerel, hen, pullet, and exhibition pen. Sterling Silver Cup, value \$100, for finest exhibit. Grand Special Sweepstakes Cup, value \$100, presented by the President for best cock, cockerel, hen, and pullet, Plymouth Rocks, any variety.

My Clean Sweep of 1st, 2d, 3d, 4th, and 5th Prizes on Pullets

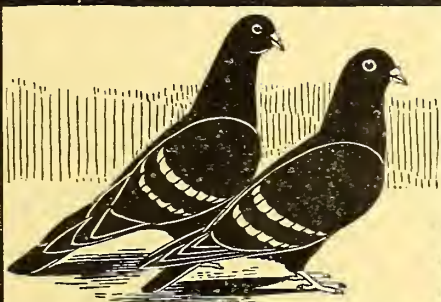
Has never been approached in Madison Square Garden and stands alone and unqualified. The record of both 1st and 2d Prizes on Breeding Pens is also phenomenal. At New York, 1895-6-7 my Barred Plymouth Rocks won almost 3 times as many 1st prizes as any other exhibitor, and more 1st prizes than all competitors combined. Grand Stock for sale. Show birds fit to win in the fastest company. Elegant Breeders in number. Richly illustrated catalogue on Application. Address,



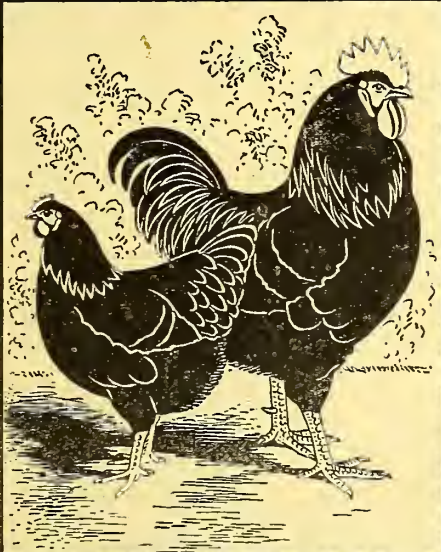
First-Prize B. Rock Pen at New York, February, 1898.

E. B. THOMPSON, Box 406, Amenia, Dutchess Co., N. Y.

The Feather



PIGEONS



POULTRY

WASHINGTON, D. C.
Vol. IV. NOVEMBER, 1898. No. 2.

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Published the 15th of Each Month.
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GEORGE E. HOWARD & CO. PUBLISHERS





They're Going For It.



WE Believe that 1898 will be the best year the poultry fraternity ever saw. We know that breeding and exhibition stock has sold well all Winter. We think more eggs for hatching will change hands this Spring than ever before. We are sure more lice will make their appearance. We shall put more Lambert's Death to Lice on the market. We will guarantee it to do more good work than any other insecticide.

WE Set a multitude of hens every Spring. We dust them well with Death to Lice. We never have a hen leave her nest on account of vermin. We never injure the fertility of the eggs with this powder. We never have little chicks now with sore eyes, and we never fail to make this chicken business pay well year by year.

WE Try to tell others how to succeed. We assure them that lice are their greatest enemy. We offer them a remedy that is cheap, safe, and sure. We handle thousands of specimens at the shows while judging. We find some that are very lousy. We are sorry for the birds, because they are not to blame for their lousiness. We know they score less, win less, while the difference in awards would buy perhaps a hundred weight of Death to Lice. We would advise their owners to try it and see.

WE Have enlarged our factory the past Fall and Winter. We are now enjoying an abundant trade. We thank our many patrons for their numerous unsolicited testimonials. We shall continue our endeavors to serve them well.

WE Send a trial 5 oz. box for 10c. postpaid. We ship a 48 oz. for 50c.; 100 oz. for \$1. by Express from nearest agency. Buyer pays Ex. We furnish dealers at wholesale who can sell at our retail prices. Send for list of agents. We also make an Ointment for head lice that does the work without injury to chick or child. 10c. postpaid. Book free.

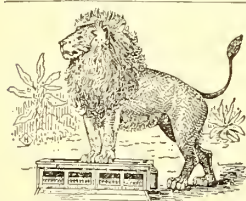
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Veteran breeder of prize-winning Black Minorcas, P. Rocks, L. Brahmas, P. Cochins, Langshans, Leghorns, Wyandots, Polish, Bantams, Bronze Turkeys, Geese and Ducks. Over 3,000 prizes won by my birds. Hundreds of choice birds for sale at all times. Prices reasonable. Send for fine catalogue telling all about my birds. All stock farm grown, strong, vigorous and healthy. Low rates by express, prompt service, best quality and satisfaction to all.



The Two Monarchs...

Of the two, the MONARCH INCUBATOR is the better, because it is a practical, successful machine, and one that will give greater satisfaction than any other on the market.

All the large New England poultry growers use them, many firms using from 15 to 25 of our 600-egg size. More than 1,000 barrels of dressed poultry shipped to market each season, within a radius of a few miles of our factory, all hatched in "Monarch" Incubators.

Send a 2-cent stamp for illustrated catalogue.

JAMES RANKIN, South Easton, Mass.

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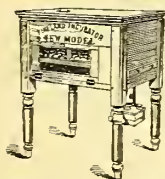
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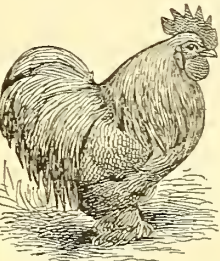
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At Upper Marlboro, Md., September 6-9, 1898, I won the following: 1 pen White Wyandottes; 1 pen, 1 cockerel, and 1 pullet, Black Minorcas; 2 pen, 2 cockerel, 1 pullet, Barred Plymouth Rocks; 2 cockerel, Indian Games. At Old Dominion Poultry Association, Hamilton, Va., November 2-4, 1898, 1 and 2 pens, 1 cockerel, 1, 2, and 3 pullets, in Black Minorcas; 2 cock, 2 and 3 hens, 3 cockerel, 2 pullet, White Wyandottes; 1 cockerel, 2 pullet, 3 hen, Indian Games.

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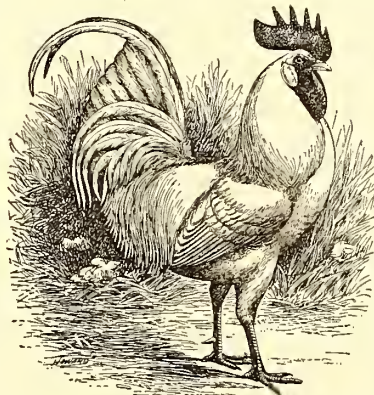
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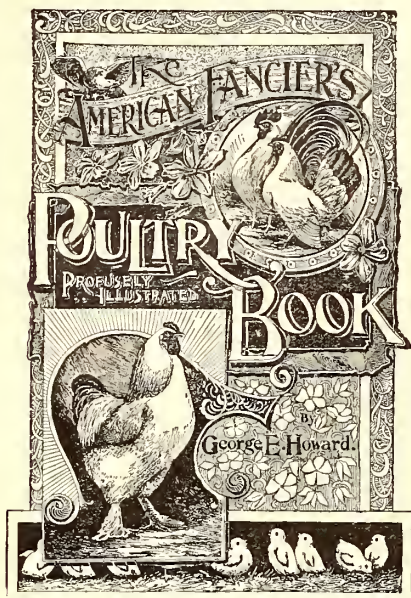
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The Feather

A National Journal Devoted to Poultry, Pigeons, Birds, Etc.

VOL. IV. No. 2.

WASHINGTON, D. C., NOVEMBER, 1898.

FIVE CENTS.

A PROSPEROUS PLANT.

The Early History of the Messrs. Bradley Bros., and a Description of Their Birds and Houses.

Sixteen years ago the Messrs. Bradley Bros. began breeding poultry as a business, with a trio of Barred Plymouth Rocks which had been given them as a Christmas present. From this modest beginning they have developed a profitable and substantial business, their birds being known in every State in the Union, as well as in several foreign countries. In fact, it may be said that no other yards produce as many exhibition Barred Rocks as do those of Messrs. Bradley Bros. They have labored hard for the success of their business, studying the minutest detail of the work, resulting in a praiseworthy success.

With the Bradley Bros., breeding Barred Plymouth Rocks is a perfected science, and they are masters of the art. They do not breed their birds recklessly. Each mating is made with some particular and definite object in view. This is their way. They are thorough-going and believe only in doing things right. Their birds are bred from the best blood obtainable, and by constantly mating from the best only, they could not fail to produce good results.

Previous to 1892 they had won distinction with their birds in various show-rooms, but it was not until this time, when they made their first exhibit at New York, that their reputation was fully established. From this time to the present their exhibits have been continuous successes, and their birds, whether shown by them-

selves or their patrons, have seldom, if ever, missed the choicest places. Their birds are bred in line, and an undisputed pedigree is known of each bird for generations. More than forty different marks are used for the identification of their birds. It is remarkable to note the care and precision these gentlemen take in breeding their birds. It is characteristic of them. Their father is the same way; his reputation as a breeder of bees is of the same high order. The father and sons are careful observers and close students of their work. They have their ideas and theories, and demonstrate their value in completeness.

The first-prize pullet shown in illustration is an interesting example of the results of inbreeding, as practiced by the Bradley Bros. In 1891, they bred

a pullet which was one of the best standard-bred specimens one would wish to see. She was inbred and much ahead of her ancestors. For three years they mated this bird in different ways, and finally, by very close inbreeding succeeded in getting the line to produce like the original female. Three own sisters of this line took first, third, and fourth prizes at New York show in 1896. This was in the strongest competition of modern showing.



Each bird weighed eight pounds, while the original pullet weighed only six and one-half pounds, thus showing an increase in weight during the time. The cut of "Grandson's Brother" is another good example of their skill. This bird scored 94 points as a cock by I. K. Felch, and was never shown nor scored as a cockerel. His plumage, form, and comb, as cock, are almost identical with those shown in the cut. This

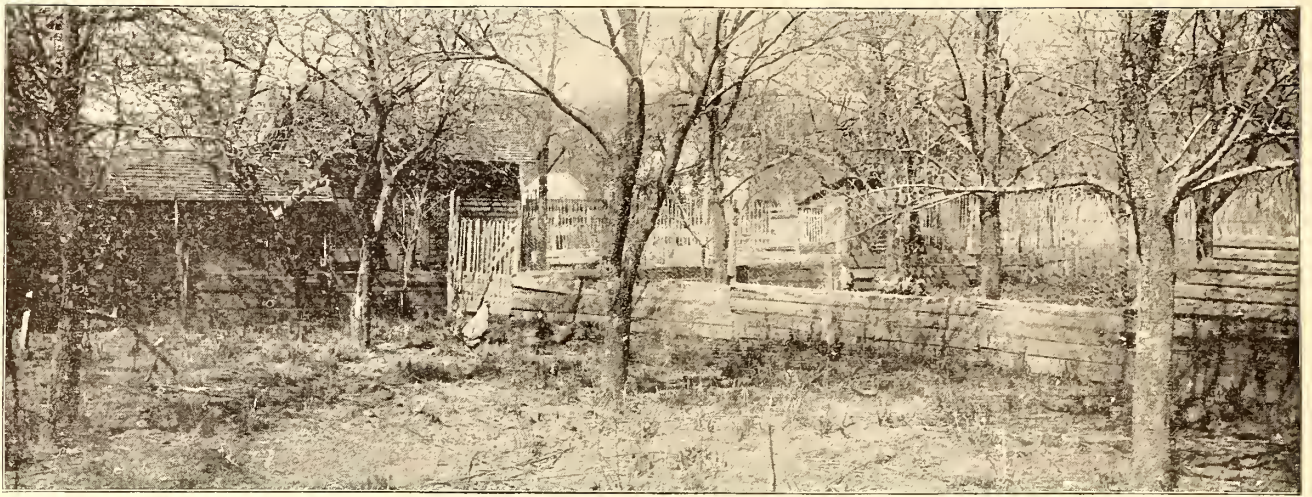


FIG. 1.—SECTIONAL VIEW OF BRADLEY BROS.' POULTRY PLANT, LEE, MASS.

bird is a full brother in blood to the first-prize cockerel at New York show in 1894, and brother to the first-prize cock at New York in 1896.

The half-tone illustrations shown herewith will give a splendid idea of the Messrs. Bradley Bros.' plant. It is a matter of note that very little attention has been paid to architectural designs in constructing the houses on their plant. Far from it. Their buildings are plain, but comfortable and roomy. It is birds and not houses that has engaged the attention of these brothers. Their ingenuity is brought into play in constructing architectural beauties in feathers, and they have succeeded. Their first poultry-houses were discarded bee shelters, which are seen behind the slatted fences in Figs. 1 and 2. These were very cold in winter and needed banking the entire north side to the eaves, and board floors laid, before they were suitable for housing poultry. The first bird they bred to take highest prize at a national show lived in the house with a lath door, seen in Fig. 1. This was in the latter part of the eighties, and one of the bird's descendants, a son of their first-prize cock at New York in 1896, is seen just outside. The large building in Fig. 1, also the low sheds are still devoted to bees.

Their later houses were erected to meet the demands of increased business. The one at the left in Fig. 3, is fifty-six by fourteen feet, and was built in 1892, after their first New York exhibit. The house at the right was put up two years later, and is seventy-two by six-

teen feet. Both these houses are divided into pens seven feet wide. The south house in Fig. 4, is seventy-four by twenty-one feet, and is divided into six pens below and four above, making very roomy, airy apartments. The roosts are on benches which can be moved to any part of the room. The best place for them, according to their idea, is slightly away from the north wall and toward the center of the room.

The range of their yards is a little less than three and one-half acres. Nothing but breeding birds are kept on this range. Last season each bird in their breeding yards had a run equal in amount to a space one foot wide and over one-eighth of a mile long, for its average share, and this throughout the entire season. Their farm covers one hundred acres, and is used for the young stock. They used two hundred breeding birds last season, and had calls for all the eggs they could produce. The illustrations show some of their darkest breeding birds. Their nearly white appearance being caused by the action of too strong light. Their young stock this year is exceptionally fine being well up to their standard. Nearly one thousand birds have been raised this year, many of which have already made records in the fall shows. Their trade is better than ever and their books show a large list for later delivery. Last season their egg orders were the largest they ever had, and the coming season promises to even excel that, many orders being booked for spring delivery.



FIG. 2.—SECTIONAL VIEW OF BRADLEY BROS.' POULTRY PLANT, LEE, MASS.

POCKET-MONEY POULTRY.

Keeping Out Marauders—Wire Netting the Best Fencing—How to Handle It—The First Poultry House—Building a Cheap and Convenient House.

Fencing and Houses For Poultry.

BY MYRA V. NORYS.

THE woman does not live who can help falling in love with her wire netting, just as she loves her other "things," that is, utensils, conveniences, etc. But I am afraid the majority of women, being short of pocket money and capital till they get well started in the poultry business, will buy only a few feet at a time. Let me urge you to buy by the roll, or half roll, if you possibly can; it comes so much cheaper in the long run; especially if "the long run" is made with the wire netting.

The woman who buys wire netting needs to take her best stock of judgment with her when she goes to the

men, considered a necessity; but let me tell you a womanly secret—you can make "hair-pins" by doubling heavy wire, using, say twenty-inch lengths, which will pin the netting to the ground very satisfactorily. I know this, for I invented them and have used them for several years. This is much cheaper than to use the boards at the bottom; it also takes less work, and if you do not need the extra width which the boards give, you can get along without them, though, with a large system of yards, and capital enough, I would have them. The boards at the top are a snare, for they furnish just the place an outgoing fowl wants to light upon. Beware of trying to cut down expenses by setting the posts too far apart. The netting does not stretch so easily as it would appear to do, while, with the depravity of inanimate things, it sags with peculiar ease and delight. In building a six-foot fence, some have thought it better, and that a firmer fence was to be secured by using two three-foot widths, giving the two extra bound edges at the center. This is not the fact, unless the widths are lapped, in which case you lose some height in the fence. The two narrow rolls will cost more than the

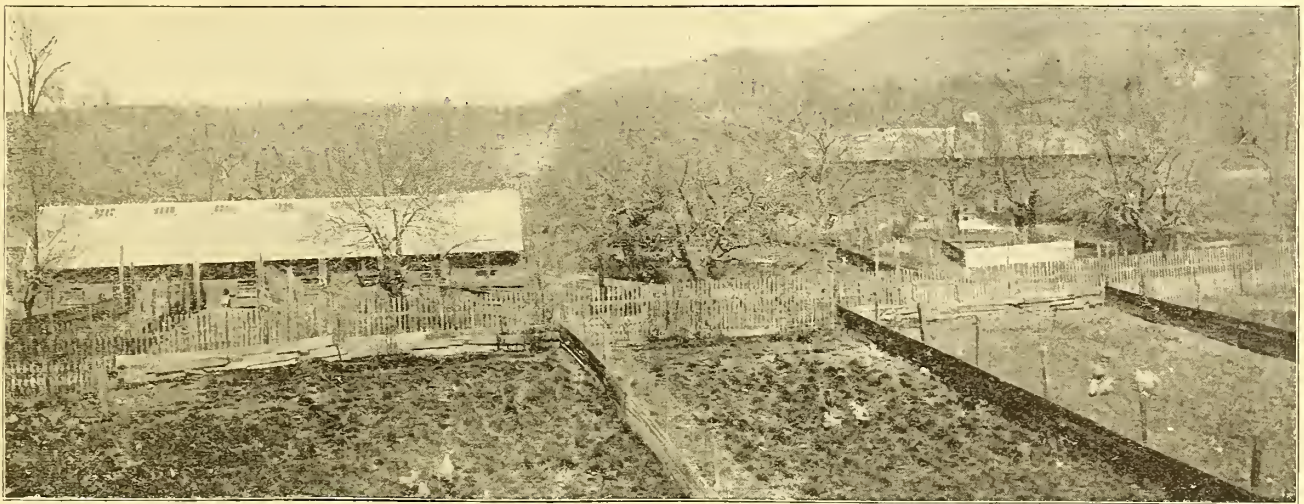


FIG. 3.—SECTIONAL VIEW OF BRADLEY BROS.' POULTRY PLANT, LEE, MASS.

store. Inch mesh makes a beautiful and desirable netting, but it costs more than twice as much as the two-inch mesh, and nearly three times as much as the ordinary style of three-inch mesh. The kind oftenest used, and usually most satisfactory, is that with two-inch mesh, and dealers who offer you specially cheap prices may foist upon you a wire lighter than that which is considered standard. Such netting gets limp and out of shape almost at once, and the same is true of that with a very large mesh. If good judgment is necessary in buying wire netting, a full stock of good temper is more than equally necessary in putting it up. For such innocent stuff it is far more than usually exasperating. And if, being a woman, it becomes necessary for you to put up that netting with your own fair hands, let me warn you to expect that those same hands will be less fair when you get through. Also, that any man you may ask, who has been there, will tell you that it is impossible for one person, working alone, to put up wire netting. While not impossible, it is certainly exasperating to the highest degree, and you would better secure help, if there is any to be had within several miles.

A six-inch board at the bottom of the yard, is, by

wide one, and without lapping you will find it virtually impossible to stretch them so as to make a fowl-tight fence, without wiring the edges together; and when all is done, it will not look so well as the fence made from the wider net. The wide net is cheaper, but it is more difficult to handle, and probably it is this fact which makes people lean to the belief that the two narrow widths would be better, until they have tried it.

Stretching the net properly is one of the tricks of the trade, which you will do well to learn early. It is a common belief that a woman can handle the whole world, animate and inanimate, with the aid of a broom stick. Wire netting is no exception to the general rule, and you will find the broom handle of greatest aid. By thrusting it through a mesh, and using the post as a sort of fulcrum to brace against, you can draw the netting into very good shape with comparatively small expenditure of strength. Small mesh requires a smaller stick, but it must be strong, and not too small. Altogether, the exercise with these sticks, and the satisfaction gained will be about equal to that inspired by the "glame sticks" of the most advanced Ralstonite.



FIG. 4.—SECTIONAL VIEW OF BRADLEY BROS.' POULTRY PLANT, LEE, MASS.

A few hurdles, or panels, to use for temporary yarding, are of the greatest convenience. If you prefer to have the netting in shape to roll for storage, these can be gotten up by stapling the netting to a series of sharpened stakes, two inches by one inch, and perhaps ten inches longer than the netting is wide. They need to be rather close together, as they give the only stability which your fencing will have; but when they are driven into the ground firmly, you will have a fairly good and satisfactory fence for all temporary uses; and wherever your fencing does not fit closely to the ground at any time, use the woman's privilege of putting in a "hair pin."

THE FIRST POULTRY-HOUSE.

Whatever make-shifts have been made to answer, and whatever plan you have followed, to get along during the first hatching season, the maturing flocks, as Autumn approaches, demand a suitable place of shelter. If you will keep poultry, you must have a house for it. What will you ask of this house? Three things, at least, you will, or should demand of such a building; and instead of weakening in these demands, through pressure of circumstances, you must so bend circumstances that these demands shall be met. For all ordinary work, I insist that the house shall be cheap. But the almost universal method is to ask first that it be cheap, and afterward that it shall be convenient and serve its purpose well. I would reverse this order, and insist first, that it shall well serve the purpose for which it was built; that it shall also be convenient, and afterward that it shall be cheap.

Cheapness, as commonly understood, is not always economy. That which saves a few dollars at the outset, at the cost of spending a half hour in labor daily, is absolute extravagance. This is especially the case where the labor has to be hired. The outgo of strength caused by inconveniences is also an expensive thing; for if the care of poultry is to be added to the regular work of an already burdened woman, it may mean doctor's bills in the near future, in spite of the often asserted—yes, and the real heathfulness of poultry keeping. I am afraid that many women have become so accustomed to inconveniences indoors, that they will feel it almost necessary to have things inconvenient outside. I believe it is possible to do almost any work in about one-third of the average time taken, if a sharp eye is had to making things perfectly convenient to do such work.

Now, how shall one build? While there are still a

few who believe in the high house, with plenty of breathing space, the almost universal leaning, now, is toward a long, low house, preferably with a scratching-shed. A long and narrow house always costs more to enclose than a square one, other things being equal. But a square house, with small pens, seems to necessitate that some of the pens shall be upon the side that is away from the best sunshine, and chiefly for this reason the long, low house seems to be continually growing in popular favor. Houses built on the scratching-shed plan may follow this popular idea by alternating the roosting-rooms and scratching-sheds. Or, if the builder is opposed to having many fowls under one roof, double houses may be built, having the two roosting-rooms at the ends, the two scratching-sheds together in the center, or *vice versa*. The latter plan makes the roosting-rooms a little warmer, but the expense of building a little greater. There is a plan of building, not much in use, which has, it seems to me, many points in its favor. It calls for a building wide enough for two rows of pens, and a wide alley through the center. This central alley is made wide to partially serve the purpose of storage-room and work-shop, and the extra sunshine needed in what may be called the back row of pens, is gained by the use of a modification of the "Monitor top" building. In the rear row the pens extend higher than the front ones, at the ridge, and at this point windows are inserted to throw light and sunshine into the rear pens.

Poultry-house partitions are a cause of great vexation of spirit to the average owner. Not long ago I saw them in one house—a very large one—made solidly of lath; that is, without the usual spacings between the lath. This was considered a cheap form of partition, and a good one, because it cut off chances for draughts. The partition most favored consists of solid, light boarding for two or three feet at the bottom, with lath, or wire netting above. One shrewd poultry keeper has evolved a novel plan for doing away with the boards, which have been considered necessary in order to hinder the fighting of neighboring, yet rival cocks. This new plan was, merely to use a double partition of netting at the bottom, the space between the two widths of netting being perhaps two inches. Through this double meshing, the birds can not injure each other; while it has some advantages, from the fact that the fowls being able to see one another are all acquainted, and may thus be changed when necessary from one pen to another without fear of their

"scrapping," and inflicting mutual injuries. The two widths of meshing, at roll prices, are scarcely more expensive than boarding; possibly not so costly, in some localities.

Ventilation is a question on which, perhaps, there is more differing than upon any other one point connected with practical poultry work. On the one hand it is argued, by successful experts, that in cold climates sufficient air will get into any building for ventilation, no matter how tightly it has been constructed. How air can enter a building from which man has made his utmost effort to exclude it, they do not explain. It is my impression that they mistake cold for "air;" and the morning visit to one of these low and close-shut houses, unless the owner is suffering from a modified form of roup, known to human beings as "cold in the head," so that she can not detect odors at all, will disclose the fact that such "air" as there is, is most certainly very foul air, heavy with foul (fowl) exhalations.

(To be continued.)

Mistakes.

Mistakes are very useful things, but the Lord pity those who make them at the time! Yes, and I will say those who must pay the bills. I have just put in a couple of hours hard work to correct or save as much as possible out of a wreck, from other persons' mistakes with my property. One sad thing about mistakes is, they are often made by following advice that taken right is golden. This is a great age for giving away advice, telling how success is won in every and all walks of life, and in the poultry business there is no exception. There are people who get a mania for giving advice and follow none. It seems as if they expected some advice or knowledge, that by the turn of a hand, fortune would be landed. Well, it won't come, so be up and dig for it.

It is really cruel to give advice to some people, that is worth dollars to others. Take the example of feeding milk to young chicks. A man who had given up school teaching, and he was a success, to raise broilers, read of the great value of milk as a food. After that he gave the chicks milk in their feed and to drink, until there were many less to drink it, and they were worthless. I arrived there in the midst of the trouble. The chicks would drink themselves full. Then up it would come just like a human baby. Of course the chicks didn't grow and soon died. A season's work gone. A sad wife. Let's pull down the curtain.

Take another mistake just winding up. It makes me sad to write them. A dealer got a lot of chickens weighing about seven-eighths of a pound, some one pound, amongst some thousands he handled. They were likely all runts, or most of them, some late hatched, people wanted out of the way, and stuck in with older ones. Within about a mile was a poor man who had rented a lot, as he had gotten the chicken fever in the spring. The dealer sent for him to come and buy those chicks, 180 of them. He came and bought and paid good money for them. He does not, or did not then, know any thing about roup, so did not look for it among these chicks, but the next morning three were dead. Then he looked among the others and found a matter closing the nostrils, a fetid scab in the mouths of some. He bought them about August 10th. October 1st there were 140 dead and some dollars wasted on spongia, etc. This man came to me in March to know about incubators. I advised him what to buy.

Before he bought a good machine he fell in with a man who had for sale one of the most worthless incubators made. He didn't ask for advice then, but he took the seller's and, of course, had few chicks, and fell into the second trap of a sharp dealer who also advised. He could have bought two good machines with the loss on the chicks.

Another person not so far from me has taken up poultry for a living. One of the first acts was to close a wagon shed and put in the inside fixtures. A leaning front was put in with twice as much sash as should be in and then, to cap the climax, the one put on a water gutter turning the rain inside. Three mistakes in one side. Too much glass, the leaning front, and the water inside. Inside was built solid a row of about twenty nests. About twenty-five hens can be kept in the place. Solid nests are a mistake in any house, I don't care how built. A loose box that will accommodate about one to three hens, just a half of one side off is the ideal nest. Four of them at a cost of twenty cents would be all that would be needed, instead of the row now in at about \$1.75. If lice get in a nest in a loose box, how simple to just carry it out and coal oil it or put in a new one. You will say, "I won't have lice in my house." Yes, a good resolve, but wait. I have gone into a roosting-room where every thing is spick and span. I gently raised a roost pole. There they were, fat and full of blood. They get there all the same, and they make no mistake on the way.

You may ask, "What shall I do with facts and advice? By facts, I mean one man who made a living by poultry. I want to do the same." You must now use your brain. You can use it better than you can any other person's. You can get advice, but you must again mix it with gray matter to see if it is suitable to you and your conditions. The making of plans from another's success or the following of advice without much thought is foolishness. I think the surest thing for a person who wants to venture in business for himself is to go to a man who is successful and who knows you and your life habits. No matter what you wish to do and what he does. He may be a farmer or a dry goods merchant, only so he knows you well. Ask him if you can conduct a business. He can tell.

There are men around me who would fail in every business under the sun even after they were tutored. It would be wrong for me to tell them to try the poultry business. They would lose every cent they would put in it. I want to show how hard it is for one away from you to advise. It is impossible to know whether to say yes or no. About the poultry business we know and know it pays, and we know that it takes business management to make it pay little or big, but about the inquirer 100 or 1,000 miles away is another matter.—W. W. KULP.

An Open Letter.

Editor The Feather:

Yours of the 22nd inst. to hand and noted. In reply will say that at present I do not wish to renew my advertisement in THE FEATHER as I have had so many answers to my little ad of Homing Pigeons which I had run for several months under the head of classified ads that it will be some time before I am able to fill all the orders which I have received from it. I was surely more than pleased with the results of my ad in your paper, and when I am ready to place another one it will be in your paper, for it is worth all the rest together. Thanking you for your courteous treatment and wishing you continued success, I remain,

Yours truly,

CLARENCE E. BIRELY,
Ladiesburg, Md.

ROSE LAWN POULTRY FARM.

Where White Wyandottes are Bred and Raised Successfully—Description of This Large Plant and Methods of Feeding.

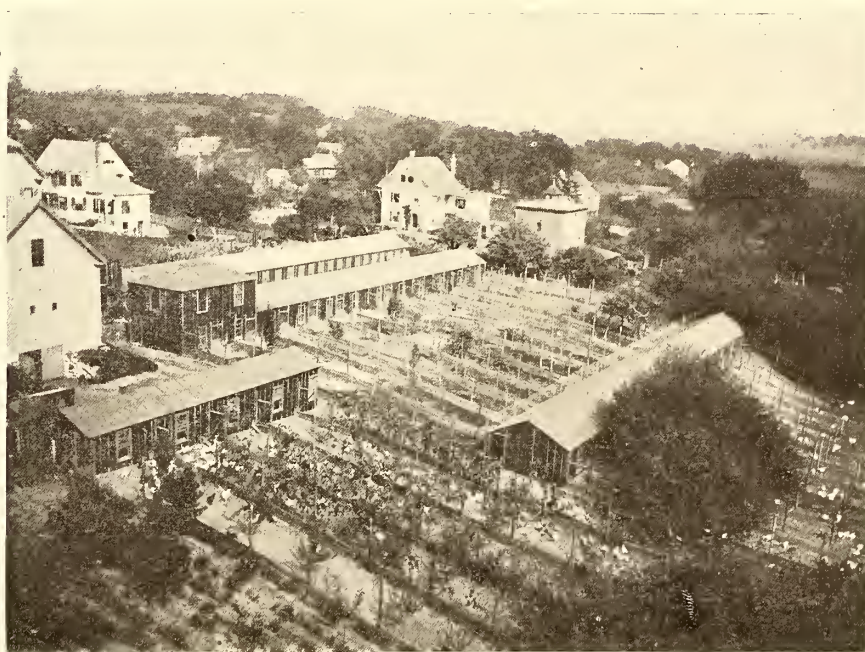
THE Rose Lawn Poultry Farm, owned by Arthur G. Duston, at Marlboro, Mass., is one of the prettiest as well as most successful ones in the whole of New England. The illustration gives an excellent idea of the plant, and shows the completeness and arrangement of the buildings and runs. Mr. Duston breeds only White Wyandottes, and devotes all his time and experience to perfecting this single variety of fowls. The general satisfaction in breeding the one kind, and only one kind, is shown by the very great success which he has attained in his work. There are no other birds on his farm but White Wyandottes. For a little over six years Mr. Duston has been breeding this variety, and each year he has been improving in his work. This year the result is more than gratifying, and the large number of first-class birds is well worth going a long distance to see. His birds are well known in the show-rooms, and have won many premiums for him as well as for his patrons. He sells large numbers of birds for exhibition as well as for breeding purposes. The birds win in the hands of his customers, and many successes are reported, where birds hatched from eggs sold by him are reaping victories wherever shown.

Last season he used sixteen pens of birds for breeding purposes, and hatched and raised over fifteen hundred chicks. This splendid result has been attained by constant, persevering work and skillful management. His young stock this season is of a high order, and is, no doubt, the best he has yet produced. These birds have been grown under very favorable conditions, having free range, ample shade, and abundance of shelter. These essentials, combined with constant attention to feeding, will show good results in the breeding and growing stock. The yards are well shaded with plum and peach trees, besides other shelter constructed for providing shade during the summer months for the growing stock.

Mr. Duston's plant comprises about seven and one-half acres, between five and six acres being devoted exclusively to poultry, the remainder for his house and

grounds, stable, and out-buildings. He has four large houses for breeding and brooding purposes. The house farthest up and to the left, as shown in illustration, is used during the breeding season as a brooder-house, and later on, when he is through hatching, he places his breeders here, and the youngsters in large coops scattered over his place. He separates his male breeders from the females when he places them in this house for the summer and early fall. This house is one hundred and forty-five feet long, by sixteen feet wide, and is divided into twenty-five pens. There is a large cook-room attached to the building, and a four-foot passage runs the entire length of the house. Directly in front of this building are two other buildings used for breeding purposes. These houses are one hundred and forty-five feet long, sixteen feet wide, and are divided into twelve pens, each with a four-foot passageway extending through them. A smaller house is shown to the left in the illustration, which is also used

for breeding purposes. This house is fifty feet long and is divided into four pens and a hospital, twelve by five feet square. The young stock are raised in brooders indoors until they are sufficiently large to care for themselves, when they are transferred to coops in another portion of the farm and allowed free range, until they are mated and placed in the breeding-pens in the fall. The largest portion



ARTHUR G. DUSTON'S POULTRY PLANT, MARLBORO, MASS.

of his hatching is done artificially, with the Cyphers incubator. He uses home-made brooders. Hens are also used for hatching purposes, but the chicks are raised in brooders. The runs of the brooder-house are six by ten feet each, and those of the breeding-houses are twelve by ninety feet each.

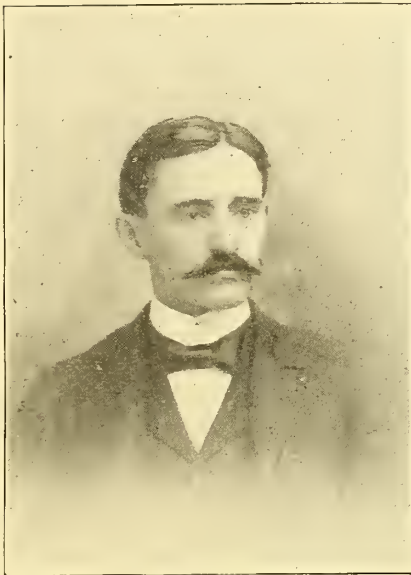
Mr. Duston uses H-O poultry feed for his young chicks, and after they are old enough he gives them cracked corn and wheat. A good portion of their food is insects, grasses, etc., found on a free range. To his laying stock he feeds a mixture of one-third corn meal, and two-thirds shorts; to every twenty quarts of the mixture he adds one quart beef scraps, and one quart of linseed meal. Oats and wheat are the principal grain foods for the adult fowls, and are always scattered in the litter on floors of the houses. Cracked corn is fed to all the fowls in winter.

A Gem.

THE FEATHER COMPANION AND DIRECTORY was received to-day all O. K., and it is such a gem that I take pleasure in enclosing ten cents for another one. The egg-record blanks are worth double the cost alone. I am also well pleased with your paper.—F. S. BULLINGTON, Richmond, Va.

THE STAR INCUBATOR.

The Star Incubator is among the most popular machines in the market. These incubators have grown in popular esteem, and users of them speak well of their work. Artificial incubation is well nigh in a perfected state, and none should hesitate to use incubators for hatching. The Star Incubator is a modern machine in every way, and is self operating as it were, hatching without the use of moisture, save that which is supplied by their improved system of ventilation. The moisture problem has been one that has caused much anxiety to all users of incubators, and since the introduction of artificial incubation the problem has never been solved to the complete satisfaction of all operators. The Star Incubator is a recent invention and is guaranteed to do its work under any and all conditions. On this question the manufacturers say: "Our method of ventilation is very simple. On the lamp end of the machine will be found two tubes extending two inches below the bottom of the machine, through which the fresh air enters. After the air enters it goes to the top, thence to the other end of the machine, being thoroughly heated on the way, and is discharged into a pocket and distributed to the end of the egg-chamber. It is then carried across the eggs, up between the casings, and out at the same end of the machine that it enters, thus making a complete circuit of the egg-chamber, and it is by this gentle current of air that we are enabled to hatch without moisture. Nature forms an egg so that it will hatch if its laws are not transgressed. If one rushes a strong current of air through a machine, and carries out the natural moisture which is supplied from the eggs, then one must replace it by artificial means, and who can tell just when to put it in? Just how much or how little? This is where so many operators fail. Only experience can help one in such a case as this, and then failure is often the result. It makes no difference where these incubators are run, from the cellar to the highest building, from sea level to mountain top, it has all been tried and the result is always the same—ventilation is perfect, no moisture needed."



L. S. BACHE.

The Star Incubator is heated by hot air, by means of a tank or radiator, which is arranged with a can screw at opposite end from the lamp, connecting with the main flue; this screw can be removed, and by putting a cloth on the end of a stick all soot and dust, which from time to time collects, may be removed. This is a good feature about this machine as it removes all danger of fire in the flues, besides insuring an

even temperature in the egg-chamber. These incubators are substantially built, being double cased and heavily lined with an extra good quality of building paper, and asbestos paper. They are also packed with mineral wool and heavy hair felting, thus insuring the machine holding its temperature in any climate.

The same care and precision is taken by this company in the manufacture of their brooders, as with their incubators. They make all kinds of brooders, sectional, indoor, and outdoor brooders. They have put upon the market this season a new outdoor hot-air brooder that promises to become as popular as their other machines. Their outdoor hot-water brooder is a fine machine and gives universal satisfaction to all who have used it. Their sectional brooders are all heated by hot water. There is one feature about the Star brooders that recommends them very highly, and that is the lighted hover-chamber. This is a good point to use in a brooder as it enables the young chick to keep warm in cheerful quarters; we have noticed the little fellows spending the most of their time in this part of the brooder, to the exclusion of the outside or colder portion. They keep warm and grow more rapidly.

Their outdoor brooder is built on the pipe system. It is heated with a globeless burner, the lamp is within a galvanized iron drum, which sits inside. The lamp is passed in and out through a door at one end; in front there are two doors, the larger one is of double glass to admit light, and when this door is opened there is a wire screen which keeps the chicks

from running out and also protects them from cats, etc. The small door is for the use of the chicks in running in and out. The top or roof is made of galvanized iron with edges turned down to keep out the rain and snow; the gases from the lamp pass out through a pipe. The brood-room is the same as in the indoor brooder, having the lighted chamber and the



J. E. RUTT.

sliding bottom. The Star Incubator is manufactured by the Star Incubator and Brooder Company, with general offices at Bound Brook, N. J. The factory is located at Lincoln, N. J., an enterprising little place adjoining Bound Brook. Mr. L. S. Bache is president of the company; G. A. McFetridge, vice-president; and J. E. Rutt, treasurer.

Their New Hall.

The Maryland Columbian Association has decided to hold its regular monthly meetings at Benson Hall, opposite the Academy of Music, on North Howard Street, Baltimore, Md.

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The Feather, Washington, D. C.

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GEORGE E. HOWARD & CO.

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Foreign Subscriptions, 75c a year in Advance.
Single Copies 5 cents.

GEORGE E. HOWARD, Editor.

All matter intended for publication should reach us by the first of the month preceding the issue in which the same is to appear.

Write your name in full, giving full post office address plainly, so there will be no mistakes.

When writing for publication use only one side of paper. Brevity is the soul of wit.

Advertising in The Feather.

The Feather now offers the best and cheapest advertising in the country. Its circulation has increased more than one hundred per cent. during the last year. Its advertising rates are lower than those of any other journal of equal standing and circulation.

The Feather reaches the people that transact the poultry and pigeon business of the country. Its publishers have made a special effort to include among its readers all the most successful and most enterprising fanciers. Advertisers are often astonished by the large amount of business which comes to them after running their card a few months. There is no other medium which reaches so large a proportion of readers in all sections of the country who are able and willing to buy when they learn who are offering the stock or supplies which they need.

Net Advertising Rates.

Space	1 mo.	3 mos.	6 mos.	1 year.
1 inch	1 50	4 00	7 50	12 50
2 " " " " " "	2 80	7 50	13 80	23 50
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1 col.	10 40	27 40	51 00	85 00
1/2 page	14 00	38 00	70 00	120 00
2 cols.	18 00	48 75	90 00	154 00
1 page	25 00	68 00	125 00	220 00

Bills of five dollars or less are payable in advance.

All other bills are payable quarterly after the first insertion for the quarter.

Five per cent. discount will be allowed on bills of over five dollars which are paid in advance.

No advertisement will be inserted at any price from persons who are not responsible or who fail to deal honestly with their patrons. We particularly request our readers to notify us of any advertisers whom they believe to be dishonest or fraudulent. Honest advertisers will be protected—dishonest ones will be denounced.

New advertisements must be received not later than the 1st of the month. Copy for change of advertisement must be received not later than the 25th of the month preceding.

Remittances should be made by postal money order, registered letter, bank draft, or express money order.

All remittances should be made payable to

GEORGE E. HOWARD & CO.,
504 11th Street, Northwest,
Washington, D. C.

Entered at the Post Office at Washington, D. C. as second-class matter.

NOVEMBER, 1898.

ADVERTISERS must have copy in for change of advertisement not later than the 25th of the month preceding. Copy for new ads must be received by the 1st of the month to insure insertion.

To our brethren of the poultry industry THE FEATHER extends its warmest congratulations. It is years since there has been an autumn when the busy season began so early and with such a rush as is seen this year. The breeders have the birds and the buyers have the cash, and all that is required is to bring the breeder and the buyer together. This is accomplished for the most part through the advertising columns of the poultry press. The pages of THE

FEATHER are an index of the condition of business, and crowded as they are this month with the announcements of America's principal fanciers, they not only demonstrate the business activity of the season, but they show the high position which our journal occupies in the confidence and esteem of the fraternity.

With the war ended; with the political excitement over; with the certainty that there can be no radical legislation to disturb our affairs; with factories in operation; with employment for labor; with money in active circulation; with abundant crops, there is every reason to expect a prolonged period of enterprise and prosperity in business. The poultry industry was one of the first to respond to improved conditions, and last season proved to be a most satisfactory and successful one to many of those who were judicious in bringing their stock to the attention of the great reading public. This year, however, promises to eclipse the record of last. Business is beginning earlier, and there are no apprehensions of war or other troubles to distract attention and cause the hoarding of money.

Unfortunately several very valuable articles which the editor intended to publish this month have been crowded out by the unexpected pressure of advertising matter. This we endeavored to prevent by the addition of four pages, but even that was not sufficient to accommodate the demands for space. The advertising pages will be found unusually attractive and interesting, however, and are a revelation as to the magnitude of the business conducted by our patrons, and of the value of the stock which is now being offered.

The Christmas number of THE FEATHER will be edited and prepared with unusual care. It will be a number of great value, and a very large edition will be printed. Those who desire advertising space will please notify the publishers promptly or otherwise they may meet with disappointment as our reading columns will not be again infringed upon.

Foster The Shows. The show season is opening in good fashion. The fall fairs are splendid indexes to the more elaborate exhibitions that are held in the winter, and these latter promise to eclipse those of previous years. It is astonishing to note the intense interest that is being taken in poultry exhibitions throughout the country. Each section is represented by its show, and it is no uncommon thing to have two shows in a season in a single community. The show-room is the educator of the masses, and does more to keep alive the breeding of fine stock than does anything else. Without the agency of the show-room there would be no interest in the fancy. Standard poultry is bred for competition, and competition is the key to business. A man's success depends upon the merit of the stock he has, and without good stock he drifts on through a monotonous existence, and is dead wood with the business. Even the most pronounced breeder of "stock for eggs," or "stock for market," takes delight in having the best he can get. Any old stock will not do in these times. The profit is in the fowls that have been bred on lines of advancement with some definite object in view. The show-room tells us each year the best birds of the times. It is

gratifying to note each year the vast improvement that has been made over the previous one. Let us foster the show-room and keep alive the spirit which prompts us to grow birds that are of some material benefit to humanity.

Money in Turkeys. MR. J. F. CRANGLE will begin in THE FEATHER next month an interesting and instructive serial on "Money in Turkeys."

MR. CRANGLE is the well-known poultry manager of Fisher's Island Farm, and the greatest and largest breeder of turkeys in America. His success with turkeys is very pronounced, and the good results he has attained have attracted the attention of the poultry-loving world. This will be the first article that MR. CRANGLE has ever contributed to any publication, and our readers will be the first to enjoy the results of his skill and intelligence. The articles will be covered by copyright, and can not, therefore, be published in any other publication. MR. CRANGLE will tell everything that he has gained by practical experience, and will truthfully show the ins and outs of raising turkeys to an advantage. His plans are his own, and will, no doubt, surprise a great many with their simplicity. The articles will be profusely illustrated, and every detail will be so carefully treated that there will be no further doubt as to there being "Money in Turkeys."

Our Holiday Number. Our December number will be our grand holiday edition. Many special features have been prepared, and it will be our banner edition. A large number of copies will be printed in excess of our regular subscription list, and it will prove a most valuable number for advertising purposes. New ads intended for this number must reach us not later than December 3, to insure insertion.

To secure the best classification, we would suggest that copy be sent in as early before that date as possible. No extra charges will be made for this edition. The number will contain a fine supplement, suitable for framing, printed on enamelled book paper. Don't miss it, but send in your advertising orders as early as possible, and if you are not a subscriber, begin at once and get our grand holiday number.

The Washington Show. The fourth annual exhibition at Washington, January 10 to 14, 1899, promises to be the greatest of all the shows held at the Capital City. Active work is now being done, and much enthusiasm is shown by the officers and members of the association. The special premiums are in excess of previous years, amounting to over \$2,500 in cash and miscellaneous articles. Twenty-two Prairie State incubators, 200 and 400-egg sizes, are offered as specials. These are desirable premiums, being just what each and every poultryman needs. Perhaps the best feature of all is the proportionately large amount of premium money, for the entry fee, as compared with previous years. First money on single birds is \$3, and second money is \$2, the entry money remaining the same, \$1 for single birds. The entry fee for exhibition pens is \$3.75, and premium money is \$5 first, and \$3 second. The premium list is now ready and will be sent on application to the secretary.

A GREAT BOOK.

Complimentary Remarks by Distinguished Writers and Authorities.

Below we publish a few of the very flattering comments we have received on our new book, *The American Fancier's Poultry Book*. The new edition has been published about one month and the sales have been exceedingly large. We want each and every reader of *THE FEATHER* to have a copy of this book, because we feel there are many things in it that will prove of much interest. We are offering the most liberal inducements that it is possible to make. You will make no mistake if you get this book. We are practically giving it away. Read the following comments, and send for a copy, before our offers are withdrawn:

INLAND POULTRY:

The book ought to sell for one dollar.

FANCIER'S REVIEW:

It is a valuable compendium for the poultryman.

BRADLEY BROS., LEE, MASS.:

The American Fancier's Poultry Book is received. It is a fine one.

N. W. HORSEMAN & STOCKMAN:

Yours with a copy of American Fancier's Poultry Book before me. I am pleased with the book.

SOUTHERN PIT GAMES:

It is printed on fine paper, and is undoubtedly the cheapest as well as the best book published on poultry raising.

POULTRY MONTHLY:

The book is an improvement in many respects over the first one. The matter has been revised and added to and an index added.

F. S. BULLINGTON, RICHMOND, VA.:

The American Fancier's Poultry Book received O. K. It is just what every breeder is "bound" to have. Many thanks for promptness.

WESTERN GARDEN AND POULTRY JOURNAL:

The American Fancier's Poultry Book has come to hand, and is first-class in every respect.

AMERICAN POULTRY ADVOCATE:

This is the most complete book that we have ever seen treating on the poultry industry, and is just the kind of book for the beginner, containing so much for so little money.

THE GAME FOWL MONTHLY:

The American Fancier's Poultry Book is received. It is a most excellent book, and it is in our belief worth the price of fifty cents to any person, as its pages are complete on whatever fowl it mentions.

TEXAS STATE POULTRY JOURNAL:

Copy of the American Fancier's

Poultry Book has been received. You certainly deserve great credit for putting such a book on the market. It is the best we have seen up to this date.

HENRY E. VOIGT, EDITOR DER GEFLÜGEL-ZÜCHTER:

The American Fancier's Poultry Book has been received and the contents thereof fully noted. The book is a fine one, and presents features not found in any other poultry book known to me.

THE MODERN FARMER AND BUSY BEE:

The American Fancier's Poultry Book is new, just out, and is up to date in every way and discusses every subject about which the poultry raiser is likely to need information. It is not a cheap edition of antiquated information, printed on poor paper, but a modern book in every respect, printed on very fine paper, filled with suggestive and helpful illustrations and is neatly bound in heavy paper covers. It is a cheap book at fifty cents.

THE Great Washington Show January 10-14, 1899.

BIG PREMIUMS, BIG SPECIALS.

PREMIUM LIST IS NOW READY,
Send for one to
W. SEYMOUR McLEOD, Sec'y,
917 F St. N. W., Washington, D. C.



J. D. WILSON,
Box 127 C,
Worcester, N. Y.

Buff Ply. Rocks.

They have won World's renowned reputation. Clean sweep at World's Fair, and have continued to lead in this country and England. N. Y., '95, '96, and '98. Winning the Am. Buff P. Rock Club's Silver Cup for Best Collection at N. Y., '98. Exceptionable bargains now on in breeders.

COVER THE FIELD THE FEATHER....

Edited by George E. Howard, profusely and handsomely illustrated, is the **Only Monthly** having complete departments devoted to the entire feathered race. Subscription price **Fifty Cents** a year.

THE AMERICAN FANCIER

Conducted by J. H. Drevestadt, is the **Only Weekly** paper in America devoted to Poultry, Pigeons, and Pet Stock, and giving complete awards at all shows. Subscription price **One Dollar** a year. Every up-to-date fancier should take these two papers as they completely cover the entire field of fancy and practical poultry culture. To further extend the circulation of these two papers we make the following:

SPECIAL OFFER:

To every new subscriber sending us **One Dollar** we will send **THE FEATHER** and **THE AMERICAN FANCIER** for one year. Address,

GEORGE E. HOWARD & CO.,
504 11th St. N. W., Washington, D. C.



ARE YOU

On the Right Track?

You are sure to be if you have

The American Standard ofPerfection

To guide you.

PRICE ONE DOLLAR.

It is the Official Book of the American Poultry Association for Raising Poultry to a Standard of Perfection, with Instructions to Judges, General Disqualifications, Cutting for Defects, Detailed Description of all Breeds of Poultry, Turkeys, Ducks, and Geese, and a Glossary of Technical Terms.

We want all of our readers to have a copy of this book, because we want them to breed their birds according to its teachings. For this reason we have decided to make the following liberal inducements:

OFFER NUMBER ONE.
TO EVERY ONE Sending us One Dollar for a copy of the Latest Revised Edition of the Standard of Perfection, we will give One Year's Subscription to *The Feather* FREE.

OFFER NUMBER TWO.
TO EVERY ONE Who is a subscriber to *The Feather*, sending us One Dollar for a copy of *The Standard*, we will extend their subscription to *The Feather* for one year from date of expiration.

OFFER NUMBER THREE.
TO EVERY ONE Sending us One Dollar for Two Yearly Subscriptions to *The Feather*, we will give a copy of the *Standard* Free.

Make all remittances by P. O. Money Order, Registered Letter, or Express Order, payable to

GEORGE E. HOWARD & CO.,
504 11th St. N. W., Washington, D. C.

Practical Poultry Raising

FOR THE
EXPERT.....
AND BEGINNER.....

Selling Birds on Approval.

Editor The Feather:

Having had several years' experience in selling fancy poultry and adopting from the very start the plan of selling birds on approval, I can say without any hesitation that it is altogether the most satisfactory way of selling stock. I have never had any stock returned or had one word of complaint from a customer.

This plan of selling rather compels the breeder to send out stock pretty near as represented; for if he fails to do so, he knows that it will be fired back at him. This plan will not work to the satisfaction of a breeder who wishes to be dishonest. But the honest, square man who has his reputation at stake and wishes to be honest will not refuse to send stock on approval.

Some breeders may say this plan is one sided. It gives the buyer all the chance in the world to cheat. He or she can claim the stock came in bad condition, or they were not as represented, or you had not done as agreed, or some other complaint, and want you to return them part or all of the money paid on them. They can claim all this; but tell them to return the stock at once and you will return the money less the return express charges, and ten to one, if you have sent them just what you agreed to, you will hear nothing more from them.

There are two things that hold the dishonest buyer from trying to make false claims upon the breeder. First, you have his money for the stock before shipping. Second, if he tries any false claims to get you to throw off a little, you tell him to return them, and he has the express charges to pay both ways. This is an inducement for him to be satisfied, if he has received what he bought. I am pleased to hear of so many poultrymen taking up this plan of selling. I think it will do much towards advancing the interests of fancy poultry breeding, and will weed out, to a large extent, the unscrupulous breeders who prey upon the unsuspecting buyers, taking their money and sending them worthless goods in return.

I have been pained to hear of complaints against some of our most noted breeders where they have sent out stock not just right and refused to make things satisfactory. There is no doubt this has been done. Had they sold the stock on approval this trouble would have been avoided, because from the very outset the breeder would have taken more pains in selecting the stock to fill the order and would have taken no chance on sending something not up to representation.

I hope every breeder will take this matter into consideration, because I am satisfied in my own mind that the future of the fancy poultry interest lies in the settling of this one thing, people are getting afraid to buy goods until they have seen them. Even under this plan,

the buyer has to take the most chances, for the reason he sends you his money and if you wish to be downright dishonest you need not send him anything. You simply take the chance of some accident while in transit. I am convinced that selling stock on approval will make, to a great extent, all breeders honest and this is what we need to make the breeding of poultry a permanent business.—HENRY TRAFFORD.

Landing Customers.

Editor The Feather:

We are all studying the advertising problem with all our might, but my experience this season leads me to say that we need to go farther. Can not you get some one who has succeeded beyond the majority, to tell us how to land the customer after we get him interested, without lying about our birds? My little one-inch advertisement has brought me, this fall alone, calls for about 700 White Leghorns! This shows clearly enough that the advertisement is all right; but you would be astonished if I were to tell you what a very small proportion of sales have accrued. Of course, it is early yet, but that is not a sufficient reason for the discrepancy.

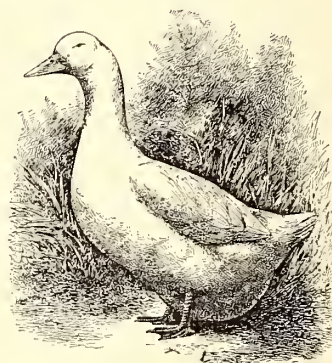
In order to be sure of selling, must we say that we have all 100-point birds? Or must we offer the best-bred stock at fifty cents a bird? So many would-be customers want one or the other, or both at once. Just an illustration: I have had a call for a bird of good carriage; snow-white; erect, five-pointed, even comb; vigorous; with bright yellow legs, etc. I wrote back that we had no 100-point birds, but I thought I could furnish something

reasonably near the requisition. Simply because I do not exhibit, I offered this bird at one-fourth the price he should bring; where-at, the inquirer asked me to make the price two dollars and pay all express charges!

We all have this experience, repeatedly. If you can show us how we can make it clear that our stock is really good and well worth the money asked, without claiming 101-point birds, you will make a single number worth a small fortune to those of us who do not yet know it all. In trying to be fair, I think I manage, somehow, to give inquirers the impression that stock is not really worth what I ask.—

M. V. NORRIS.

ATLANTIC FARM.



Hallock's Pekins

Are among the first on the market, are sought for by the trade, command the highest prices and give the best of satisfaction in every way. And in the show room it's the same story. The proof is the long string of blue ribbons they've won at New York, Boston, Washington, D. C., and other shows. Breeders are now ready for delivery at reasonable prices. A free booklet gives the particulars. Address,

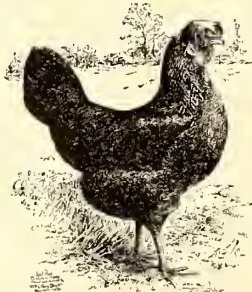
A. J. HALLOCK,

Box F, Speonk, L. I., N. Y.

MORE THAN A SCORE OF SHOWS WON

During the past season by customers of

BRIGHT'S BROWN LEGHORNS BARRED P. ROCKS



THESE honors, with those won at America's Greatest Show, Boston, 1898, including six firsts and all the collection and grand specials, is convincing evidence that this stock has no superior. My birds this year show the results of one more year of careful mating and are the best I ever owned. They are strong all-around show birds and breeders. The better you know them the better they will please you.

The Best Breeding
Stock I Ever Had For Sale.

Exhibition Birds for the
December Shows....

GROVE HILL POULTRY YARDS,

A. C. SMITH, Superintendent,

Box 411, Waltham, Mass.

W. E. BRIGHT, Prop.

Broom-Corn Seed.*Editor The Feather:*

Will you please tell me through your paper if broom-corn seed is good for laying hens?—Subscriber, Quarryville, Pa.

We do not think any benefit to laying hens is to be had from feeding broom-corn seed, and do not know of its ever being recommended as a feed for poultry. The fowls, no doubt, will eat it, but we think it best not to use it too liberally.

Ventilation.*Editor The Feather:*

Will you kindly tell me through your valuable paper how best to ventilate the roosting-pen at night in cold weather?—A Subscriber, Chicago, Ill.

We think it best not to ventilate the pen at all, as attempts at ventilating henhouses have proved sad failures in many cases. Our henhouses are without ventilators, but are roomy and free from over-crowding. Birds are safer if shut up snug and tight during cold weather, free from draughts, than if the most approved form of ventilation was used. Colds and roup have always resulted from attempts to ventilate our houses, and we would suggest you use no ventilators at all.

Dark Brahmas.*Editor The Feather:*

Will you please publish the true markings of Dark Brahma cocks and cockerels?—S. S. Daub, Jr., Pottstown, Pa.

A Dark Brahma cock or cockerel has a white head; white neck; hackle, silvery white, with black stripe down the center of each feather; white back; saddle like hackle; black breast and body; white wing-bows; black tail; black toe-feathering, and mixed black and white shank-feathering.

Learn it First.*Editor The Feather:*

Can you give me the following information, as I am about to embark in the poultry business and would consider it a great favor? How much land is required for about 5,000 fowls, what is the average amount of eggs per capita, average number of chickens hatched per annum, what is the cost of feeding, and if possible what profit do poultrymen figure on? How many fowls would be required to yield a profit of \$30.00 per week, depending on sale of eggs and sale of young poultry? By furnishing me the desired information you will greatly oblige.—M. A. R., L. I., N. Y.

We would like very much to answer the above to the perfect satisfaction of our correspondent, but feel that however careful we might be, we would fail in our purpose. It is evident the writer is entirely unfamiliar with the poultry business, and lacks even a knowledge of the care of a few hens. We will say that the poultry business is one which pays a large profit on the capital invested, but it is not every man's business, nor one that is simple and easily conducted. It is one of the most difficult of all businesses to conduct, and can only be learned after a severe and trying apprenticeship. It is an easy matter to estimate the amount of land required to accommodate 5,000 fowls, the average amount of eggs per capita, the average number of chickens hatched, etc., but it is not so easy to estimate the man's ability to do these things. We would suggest that our correspondent not think of all these things at the start, but begin at the bottom and learn the facts by actual observation and experience. It is the better way; in fact, it is the only way. Too many well-intending people have been wrecked in the poultry business by the silly advice of the theorist. The responsibility is

too great for us to assume in answering the questions, even though we would like to do so, but we will assist the writer in studying out the details of the business, and acquiring the knowledge so essential in making the business a success. It is a good paying business when once learned, but it should not be underestimated.

Always Winners.

Among the successful breeders of poultry and pigeons, perhaps none enjoys a greater success than does Dr. W. A. Gibson, Jackson, Mich. The Doctor is a great lover of fine birds and devotes his entire efforts to breeding only the very best. For the past sixteen years he has exhibited his birds with distinction, and has won a long string of victories. In pigeons he breeds Magpies and Archangels. These two varieties are bred by him to a high state of perfection, and his birds are well known by pigeon fanciers from the Atlantic to the Pacific Oceans. Last season his birds were shown in most all the principal shows, and met the strongest competition. They won. Their list of winnings is a long one, and the Doctor is to be congratulated on his success. His Single Comb White Leghorns have a very flattering record, they being equally as fine as his Magpies and Archangels. His ad is always in THE FEATHER, and our readers should look into the prices and birds which he is now offering for sale.

E. L. MILES, Sag Harbor, N. Y.

Is the Originator and Breeder

of the

Montauk Strain of

Barred Plymouth Rocks.**TOO LATE FOR CLASSIFICATION**

CALIFORNIA.—Large stocked egg and broiler ranch offered to run on shares; only fully experienced and successful man need apply; superb climate. M. NILES, 1120 Vt. Ave., Washington, D. C.

HAVING BRED Racing Homers for the last 20 years, to make room for Macclesfield Tipplers will sell 20 pairs of mated Homers bred from Mons Weggs strain, of Belgium, with records 550 miles in one day, 8 pairs bred from my World Fair flyers to Baltimore, 820 miles in 4 days, 6 hours; 12 pairs with record 239 miles in 6 hours; 6 pairs with record 107 miles in 1 hour and fifty minutes, from \$1 up to \$3 a pair. Belgium Hares \$1.50 to \$4 a pair. No catalogues this year. Stamps for reply. EUGENE STODDARD, President of the Star Homing Club, Hagerstown, Md.

C. B. HUFF, Delaware, N. J., fine, large, vigorous stock, Barred Plymouth Rocks, S. C. White and Buff Leghorn cockerels, Pekin drakes, and Light Brahma pullets. Write me for prices.

HOMING PIGEONS.—Choice mated birds of the best strains for flying or squab breeding, 90c a pair; \$5 for 6 pairs. Stamp for reply. W. A. B. HALBACH, Lancaster, Pa.

S. C. B. LEGHORNS. Do you want typical shape and style? Do you want small combs and pure white ear-lobes? Also rich color? Address, W. B. GERMAN, Specialist, Millville, Pa.

FOR SALE.—\$5 Black Langshan cockerel for \$3. Your money back if he don't suit. Two Buff Leghorn cocks, \$2 each. B. P. Rock cockerels, \$1 each. R. C. GRINDER, Roslyn, Va.

LOOK! To make room for my young birds, I will sell sixty pairs squab-breeding Homers, at \$1 a pair. Address, EDWIN W. FLY, Clear View Farm, Chalfont, Pa.

POULTRY SUPPLIES of every description from a leg band to a bone cutter. Prices lower than ever. Illustrated catalogue free. I. F. SCHOTT, Box 175, New Pittsburg, Wayne Co., Ohio.

FOR SALE.—Bronze and Half Wild Turkeys. Hardy and prolific. 25 White Wyandottes; 15 W. P. Rocks; 25 Brown Leghorn hens; 200 B. P. Rock pullets. Low prices, quick sales. HADLEY BROS., Peterboro, N. H.

FIVE FIRST PRIZES out of a possible six and \$5 gold special, is what my S. C. White Leghorns won at the great Cambridge Fair, 3,700 entries. Drevendstedt, judge. Exhibition and breeding stock for sale. Choice cockerels \$2 and up. Catalogue. H. V. BUMP, Cambridge, N. Y.

WHITE WYANDOTTES.**200 COCKERELS,**

—AT—

\$2 AND \$3 EACH.**BUY THEM AT****...HEADQUARTERS...****THE HOME OF THE****WHITE WYANDOTTE****...WILLOWCREST POULTRY YARDS...****GOSHEN, N. Y.**



CONDUCTED BY J. C. LONG, NEW YORK CITY.

Unfamiliar Fancy Pigeons.

While our list of familiar fancy pigeons is an extensive one, and it might well be asked, as it often is of fowls, "We have so many, is there any need for more?" still there is a long list, well known to the fanciers of eastern countries, across the broad waters of the Atlantic, that are as beautiful as those we have grown accustomed to; and it has long been a wonder to me that more of them have not been imported, and found a place in the lofts of our lovers and breeders of fancy pigeons. They have occasionally been seen, but for some reason have not taken a strong hold of the hearts of our fanciers, and so have not increased, and in fact have dropped out of notice altogether.

First among these I will mention the Crescent, so called from a crescent-shaped marking of color across its breast, the points of the crescent turning up towards the ear openings. It is a bird of plump build, rather shorter in body than the Swallow, but of the same low character of carriage. It has an oval-shaped plain head, with quite a prominent forehead, long dove-like beak, red eye surrounded with a fine cere, short neck, short legs heavily booted or feathered. Its color is of the hue known as reddish-silver, the wings being slightly darker than the breast and body, and crossed by two deep brownish-red bars. The crescent is of this same shade, and is of so prominent a character that no one ever having once seen the bird can mistake calling it by its proper name. They are so little known here that I am unable to testify as to their breeding qualities, but should judge from their general appearance that they would be as good breeders as the Swallow or the Priest, both of which they favor in build. It may be they are difficult to breed to color and marking, which is the reason they have not multiplied and become general favorites.

The Shield is another attractive pigeon little known here. They are about the same shape as the Crescent and are also heavily booted, and plain headed. The plumage of all parts of the body is pure, spotless white, with the exception of the wings, which are colored like the Turbit's, and have white bars. Like the Crescent, little is known of their habits, but if type is any indication, they, too, should be as good breeders as the Swallows. They are really a very attractive variety, and it is singular that they have not become more of a favorite.

The Letz, or as it is known to us, the Shield Trumpeter, has been more or less cultivated at times, but still is not so common as to be well known. They are similar to the Shields in build and markings, but with this variation, that instead of having a plain head they

have the shell and rose or tuft of the Trumpeter. This rose is not developed to the extent of the rose as seen on the Russian Trumpeter, but is like the tuft familiar to us on the Trumpeters we used to breed before the advent of the Russian. These, like the Shield, have the white bar running across the colored wing. They are of all the colors known to the Swallow and Turbit, black, blue, red, yellow, and silver, and have the same dark or bull eye. As an exhibition bird they are very attractive, more so even than the Trumpeter proper, because of their contrast in coloring combined with their peculiar head properties. The uncertainty of getting all the desirable qualities in perfection is, I fear, the reason why they are not more generally known and bred.

The Lahore is probably least known of any of these unfamiliar pigeons, and yet it has the name of being a hardy bird, and fully as attractive as some of the old varieties we cling to so tenaciously. It is a broad-breasted, plump-bodied pigeon, a little larger than the Turbit. Its head has the shape of the Swallow's, its bill long, upper mandible dark, lower light, eye dark, surrounded with a fine reddish cere, legs and feet free from feathering and red in color, legs short. Its head is colored like the Swallow's, the coloring extending down the back and sides of the neck, and spreading out over the wings to the ends of the flights. The jowls, throat, front of the neck, breast, under parts of the body, and tail are pure white. This marking is different from any seen in any other member of the pigeon family, and while not as attractive as some other combinations, when nicely cut can not fail to arrest attention. I can say nothing from experience as to their breeding qualities, but should judge from the little I know of them that they would be equally as good as others of their type.

The Fire Back, although an attractive pigeon, hardy and as easily raised as most pigeons, has never increased to such an extent as to be known outside of a limited area. They are never advertised, and only rarely seen at our exhibitions, which is sufficient evidence of their scarcity, and that they can be properly classed among unfamiliar pigeons. In size they are about like the Priest, Starling, and Ice Pigeons, and of about the same shape and carriage. Their color varies from black, through the darker shades of red to the rich copper which is the favorite color. The head, breast, and under parts are very dark, while the wings and back are of a lighter shade, slightly ticked with black. The base of the neck, and fore part of the back, between the shoulders, is of a beautiful iridescent hue, somewhat resembling the hues of the Archangel, and from this it takes its name, the Fire,

Back. The tail is white, and at the base of the beak between the eyes, is an oval spot of white. Its legs are short and both legs and feet heavily muffed or booted with dark feathers.

That so attractive a pigeon should not have had more admirers and increased in proportion, is strange, when we have so many well-known sorts with fewer claims to beauty that are abundant. Possibly it may be that prices have been the cause, importers holding them at fancy prices and would-be purchasers not seeing attractions enough about them to warrant a long price being paid for them. This, no doubt, is the reason that many varieties besides those I have mentioned, that are well known in Europe, have not become familiar to us, first, cost has prevented their introduction, beyond a single pair or two, and these few have not survived the influences of our climate long enough to increase in numbers. Popular and well-known varieties have, from time to time, been imported abundantly, and at high prices, but these unfamiliar pigeons have been ignored and neglected.—J. C. LONG.

American Owl Club.

Editor The Feather:

Please announce through the columns of your valuable journal that Mr. Geo. W. Spohn, N. 9th St., Philadelphia, Pa., and Mr. Thos. S. Armstrong, Market St., Camden, N. J., have been unanimously elected to membership in the American Owl Club. This gives us a membership now of twenty-five. In addition to the regular special and class premiums annually offered by the New York Poultry and Pigeon Association, the club and individual members will donate specials to the value of about \$70 to be competed for by members only, who have paid their dues for the year ending December 31st, 1898. Will those few members who have not yet sent in their dues please remit them as soon as possible?

Dr. Charles H. A. Meyer, Baltimore, Md., writes me under date of September 15 that he will donate \$5 cash for the best Silver English Owl hen bred in 1898, and wearing the Willetts' or English conference band, and bred by exhibitor. Mr. W. Kennedy, Red Bank, N. J., also writes me that he has made arrangements with a jeweler of that place to furnish him with a fourteen-carat gold medal, to cost a little over \$10, and that it will be ready to deliver into my hands at one week's notice. As a novelty, Mr. Eckert has decided to offer in place of a medal, a good-sized, fancy, solid silver spoon, nicely engraved, which I understand will be ready shortly. President Ehinger and also Vice-President Bond have written me in regard to their medals, which I am informed will be ready on time. I understand that quite a number of first-class Owls of the different varieties have been raised this year, so we can look forward and expect to see more lively competition than in previous years.

The club is always open to receive new members, and a copy of our constitution and by-laws will be mailed to all who desire to join the club.

GEO. FEATHER, Sec'y and Treas.

A Big Mistake.

Editor The Feather:

Some amateur Fantail fanciers do not realize the importance of separating their birds in winter. I will give you

some of the past experience I have had in that line.

Winter before last I did not separate my Fans and let them continue breeding in a heated coop. I got as many eggs as usual, but, to my surprise, none of them were fertile, because the birds were worn out in the past season, and besides that they were out of condition and very loose feathered.

You should separate your birds about the 1st of October and remate them about the middle of March. That will give them plenty of time to recuperate. You will find if you do this you will have better success the next season.—D. F. SWAIN, JR.

Shows and Associations.

The Cerro Gordo County Poultry and Pet Stock Association will hold its fifth annual exhibition at Mason City, Iowa, January 25-27, 1899. John D. Reeler, Sec'y.

The Indiana State Poultry Association has accepted the resignation of Mr. N. J. Hyde as president and elected Mr. F. P. Johnson to fill the vacancy. The board has also decided that no change will be made in the dates of their coming exhibition.

The National Exhibition Game and Game Bantam Club, which was recently organized, is increasing its membership very rapidly. The secretary, J. C. Pratt, 170 Adams St., Chicago, Ill., will be pleased to correspond with all who may be interested in these varieties, and are desirous of joining the club.

The tenth annual show of the Northern Illinois Poultry Association, will be held at Rockford, Ill., December 26 to 31, 1898. B. N. Pierce, and D. T. Heimlich will judge. Premiums are always promptly paid in full. Twenty dollars in gold is offered as a special, besides twelve other specials in silverware. H. S. Crandall, Sec'y.

The second annual exhibition of the Sabina Poultry and Pet Stock Association will be held at Sabina, Ohio, November 21-26, 1898. The premium list is now ready. The disqualifying weight clause will not be applied, and premiums are guaranteed. The association has a long list of cash specials. B. N. Pierce will judge. Ralph H. Mathew is secretary.

The secretary, Chas. T. Cornman, of the American Exhibition Game and Game Bantam Club, announces the result of the vote for judge of Games and Game Bantams at the coming show as follows: C. P. Earle, seven votes, Wm. Barber, three votes, Wm. Clark, two votes, B. C. Thornton, one vote, F. B. Zimmer, one vote, and S. W. Doubleday, one vote.

The Illinois Fanciers' Association, which was recently organized at Lanark, Ill., will hold its first show at Freeport, Ill., January 2-7, 1899. This association is incorporated under the laws of the State of Illinois, with a capital stock of \$2,000. The association is strongly backed financially and promises are good for a successful show. G. W. Sword, Sec'y, Lanark, Ill.

The Northern Illinois Poultry Association will hold its annual exhibition at Rockford, December 26-31, 1898. The society has been fortunate in securing the services of B. N. Pierce, Indianapolis, and D. T. Heimlich, Jacksonville.

Their employment guarantees correct score cards, which will be given out early in the week, giving exhibitors a chance to advertise their winnings. H. S. Crandall, Cor. Sec'y.

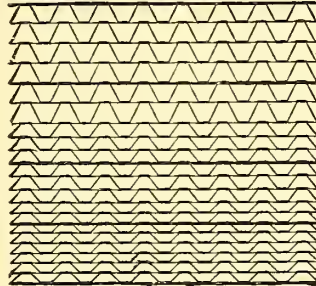
Among poultry associations of the Mid-West, the Western Poultry Fanciers' Association of Cedar Rapids, Ia., bids fair to hold the largest show in that section. For the past sixty days it has been making an effort to raise a large breeder's purse upon all the leading varieties, and is meeting with the best of success. This year this associa-

tion expects to offer the most liberal prizes of any show in the West, and it will be of interest to breeders to keep this show in mind. The dates selected are Jan. 16-21, 1899, and the judges are D. J. Lambert and B. N. Pierce. In connection with the show will be a very large exhibit of pigeons, and the well-known pigeon judge, Mr. Geo. Ewald, of Cincinnati, Ohio, has been engaged. For further particulars address, C. H. Playter, Sec'y, Cedar Rapids, Iowa.

Advertise in THE FEATHER; it pays.

M.M.S. Poultry

FENCING



Patented July 21, 1896 and July 6, 1897

is made of the best number nineteen galvanized steel wire, strengthened by a cable selvage and a cable every foot in the height of the fence.

A Fence, Not a Netting.

Its multitude of horizontal wires gives it strength, makes it easy to erect and keeps it in good shape.

50% Saving to the User.

It requires but few posts and no top or bottom rail. Only genuine when every roll contains the famous M. M. S. trade mark. Descriptive matter free.

DE KALB FENCE CO., 334 High St., DE KALB, ILL.



BREEDERSOF POULTRY

Can not afford to do without

LEE'S LICE KILLER.

It eliminates entirely the three bug-bears of the poultryman

Lice, Mites, and Scaly Leg,

With none of the labor incident to dusting, dipping, or handling individual fowls

The vapor WHICH RISES from a surface painted with Lee's Lice Killer is of an anæsthetic nature and affects insects in a similar manner as chloroform affects animals. By simply painting it on roosts and dropping-boards, it KILLS all lice and mites on the roosts or on the bodies of the fowls roosting over it. It also kills the insect causing Scaly Leg, leaving the legs smooth and of their natural color. It has no effect on the fowls or attendant and possesses none of the characteristics of bisulphide of carbon, the vapor of which FALLS and is an irritant poison, more dangerous to the fowls and attendant than to the insects.

November 1st we issued 50,000 copies of our new 64-page book "How to Get Rid of Insects and other Vermin." This book contains valuable information for all who cultivate Poultry, Stock, Grain, Fruit, or Vegetables and gives the name and address of our agents at principal points in every State in the Union. 10,000 copies will be mailed to interested persons who registered at our Exhibit at the Trans-Mississippi Exposition, and we want to send a copy to each reader of THE FEATHER. Send your name and address and we will mail you a copy free.

Price of Lee's Lice Killer:

1 qt.	=	.30
1-2 gal.	=	.50
1 gal.	=	.75

GEO. H. LEE CO.,

1104 Farnam Street, Omaha, Neb.

Eastern Agent, D. A. MOUNT, Jamesburg, N. J.

Central Agents, F. S. BURCH & CO., 178 Michigan Street, Chicago.

THE HAGERSTOWN SHOW.

The Largest and Best Display of Poultry and Pigeons Ever Held in America.

Hagerstown has again crowned itself with glory. The last annual show was a monster celebration, being undoubtedly the greatest yet held at this place. The event was, according to our belief, the largest exhibit of poultry and pigeons ever held in this country, and ranked with the leading shows held at New York, Washington, and Boston, both in quantity and quality. It is estimated that nearly four thousand birds were on exhibition. The quality of the birds was exceptionally good, the general expression being that a better exhibit was seldom, if ever, seen. It is no easy matter to plan and operate a show of the magnitude of this event, but it goes without saying that the superintendent, Mr. John L. Cost, is equal to almost any emergency. We are not prepared to say how true this is in all cases, but so far as running an up-to-date hen show, we award him the blue ribbon. For long years he has planned his work to success, and has placed his city's name high up in the poultryman's calendar.

Besides being a successful show in point of entries, it is also a success on the social side. This is attested by the large number of fanciers who attend regularly and stay through the week. One is liable to meet almost any other person there, and it is really a good feeling to know that one was there. This is the spirit which Mr. Cost instills into everyone who comes, and when once a fellow goes there, he is more than likely to go again. Besides the large displays of birds, the social enjoyments are such as to attract the average henman who thinks a good deal of himself and his birds.

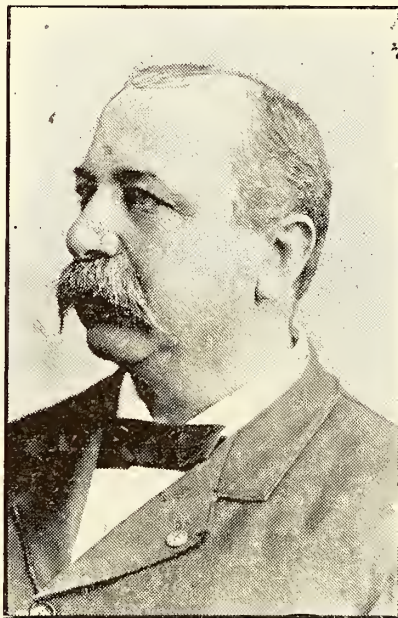
Thursday is the day set apart for the most festivities, and it is the day that is generally remembered afterward. By Thursday noon the judging is completed and all are either pleased or displeased with the results, and those who are displeased feel as though they were pleased, anyhow, before the evening is well spent. After supper the local and visiting fanciers were drawn up in line of parade, and did themselves proud over Hagerstown's historical streets. Each marcher wore a specially designed cap, pretty blue ribbon badge, a White Holland Turkey feather, and a good-sized walking stick. This uniform was presented to each by the management, and the sight was an imposing one. The one hundred paraders were headed by Mr. Cost as chief marshal, followed by the Hagerstown band and the rest. Messrs. Frank Hall and C. C. Townsend were assistant marshalls. Mr. Blauch was mounted on a good-sized charger, and the guests of honor rode in carriages. All others walked. The parade was not a long one, but just of sufficient length to get one enthused and awakened to the fullest enjoyment of the occasion.

After the parade the gathering adjourned to the Baldwin House, where a most elaborate banquet was spread. The decorations were beautiful and the scene was an animated one. Everybody seemed happy and we have every reason to believe they were. During the early hours of the evening, Mr. George O. Brown was presented a handsome gold-headed cane, the gift of those present.

Mr. A. E. Warner did the honors well as toast master. Many very interesting speeches were made during the evening. The banquet closed at midnight.

The Plymouth Rock classes were well filled with good specimens. Barred Rocks were not as numerous as last year, but those shown were of superior quality. John Ridgely of H was the principal winner, taking first and second on cocks, first, second, third and fourth on hens, and first on pullets. A. E. Warner, Daniel Dayhoff and Denton Morford were other winners in this class. White Rocks were very fine in quality, many good birds being among them. Messrs. J. F. Defandorf and R. E. Long, showed some typical specimens, as was also the first cockerel shown by Chris. C. Burrough. Buff Rocks were the leading class, and a better collection has never been shown.

The several classes of Wyandottes were full of good birds, the Whites, as usual, being the strongest class. Competition was keen in this class and it was a task to pick the winners. Brahuas



MR. JOHN L. COST.

were not up to their best points, young birds not being well matured in Lights. Darks were of excellent quality, and the winners of Messrs. Townsend, Minich & Son, and Thiele were good birds in every particular. All classes of Cochins were good. The Lynnhurst Poultry Yards made elegant entries in Buffs, Whites, Partridge, and Blacks. R. R. Topping was a large exhibitor and winner in all classes of Cochins. Messrs. Geo. Schrade, F. G. Bean, Birely & Co., and W. A. Smith were the principal winners in Black and White Langshans. These classes were not as large as in previous shows.

Brown Leghorns were splendid. Dr. H. W. Dorsey won the greatest share of awards on these birds. The doctor's birds were of their usual high order, and he seldom fails to win wherever he shows. R. C. Browns were good. The honors were divided between Messrs. Kulp, Minturn, Fronheiser, and Smith. On White Leghorns, the Lebanon Poultry Yards, Hamme Bros., Dayhoff, and Thiele were the winners. R. C. White Leghorns, Black Leghorns, and Dominique Leghorns, were good classes.

Buff Leghorns were a splendid class and the winners of Armbrust Bros., Brown, and Kendig were good, typical birds. Smith and Bean won all on Anconas. Black Minorcas were not large in numbers but of good quality; Allen won the lion's share of the prizes, taking first and second on cockerels, first pullet, and first pen. Lebanon Poultry Yards took first hen, and Fleigh took first cock.

Blue Andalusians were not in large numbers, but those shown were of good quality. Black Spanish were a splendid class, some excellent birds being shown by Spahr, Burn, Long, and Belmont Farm. All classes of Polish were well filled with prime specimens. M. T. Burn showed in each class and won on deserving birds. Belmont Farm was a close rival to Mr. Burn in many of the classes. Hamburgs were pretty classes. These birds were of first quality. Minich & Son, Burn, Topping, and Belmont Farm being the chief winners.

Games and Game Bantams were out in large numbers, and the birds shown were a hot class. They were representative birds, and many of the specimens would be winners in any show. Charles T. Cornman had entries in nearly all classes, and his birds were, as usual, up to their usual standard of excellence. A. E. Blunck had a beautiful string of birds, with many high scorers. B. C. Thornton, the well-known breeder of Games and Game Bantams, came in for a large share of the glory. George Schrade, Harms & Bro., and Belmont Farm were other winners in these classes.

Bantams, other than Game, were well represented, with excellent stock. Each class was filled and the awards were well placed. The display of water fowl was fine. The Lebanon Poultry Yards made a great display of ducks and geese in a pond outside of the main poultry building. Much attention was attracted by it, and a crowd was constantly around the ropes. The incubator and brooder display was very fine. The Universal Hatcher hatched several hundreds of chicks and won first for best incubator in operation, and first for best brooder in operation. The Star Incubator and Brooder Co. made an excellent display of their machines.

American Turbit Club.

The result of the vote as to the place of the next annual meet and judge of the American Turbit Club was almost unanimous for Louisville, Ky., and Mr. Harry A. Koons has been selected to place the ribbons, which will, no doubt, meet with the approval of every Turbit fancier, as Mr. Koons has been an old Turbit breeder and judge of same for a number of years.

The specials for 1898 consist of \$55 in gold, and will be competed for at Louisville show, November 29th to December 3d; competition for these specials is open to members of the American Turbit Club only.

The association offers a silver cup for the best display in Turbits, and another silver cup for the best Turbit hen in the show, any age or color. Open to all.

Let every Turbit breeder, be he large or small, send a few birds to Louisville and try for one of these specials, and those not already members of the American Turbit Club send in their name, together with \$2, the amount of initiation fee and dues for one year, to the secretary at once.

WM. S. LENTZ, Sec'y and Treas.
Allentown, Pa.

THE BUSINESS WORLD.

As Viewed From the Columns of The Feather.

LEFFEL'S BARRED ROCKS.

Readers of THE FEATHER will appreciate the ad of Mr. George M. Leffel, Springfield, Ohio, which appears in this number. Mr. Leffel is an exclusive breeder of Barred Plymouth Rocks, and has gained considerable reputation in the show-rooms. His birds are well



GEORGE M. LEFFEL.

known and their scores are high. Perhaps the highest score given any bird of this variety was given a cockerel bred by him. This bird was "Champion Son," which was scored 95 points by I. K. Felch, at the Dayton show. Mr. Felch pronounced it the best score given by him to a Barred Plymouth Rock cockerel in all his life, and wrote across the score card in ink, "Every doubt scored against this cockerel." This cockerel weighed eleven pounds and was of excellent shape and color.

Mr. Leffel's show record is something to be proud of, and all of his records are made in score-card shows. He will not show under any circumstances at a comparison show, because he believes in the close application of the weight clause. He says: "I never show at comparison shows in winter. My birds made their records in score-card shows, not comparison like New York, Washington, Kansas City and Boston. Birds at these shows are scored in closets. The first pullet at one of these shows only weighed four pounds, and could not have won at a score-card show. It is an imposition. The birds ought to be up to standard weight, because if weight is not taken into consideration, breeders breed only for feathers and not for size."

Mr. Leffel's yards are pronounced very fine, and nicely arranged. The buildings are modern, having ample light, dust-boxes, scratching-places, and all other essentials for raising prize-winning poultry. Purchasers of stock and eggs from Mr. Leffel speak in glowing terms of his stock, and his fair treatment. Our readers should write Mr. Leffel at 363 South Fountain Ave., Springfield, Ohio, for his illustrated circulars and prices.

GOOD WINNINGS.

Messrs. W. H. Bray & Co., New Berne, N. C., had great success with their birds

at Asheville, last January, winning in hot competition as follows: Buff Cochins, 1st cock, 1st cockerel, 1st, 2d, 3d, 4th and tied 5th pullets, 1st, 2d, 3d, 4th and tied 5th hens, 1st and 2d pens. Their first cockerel scored 95½ points, first pullet 96, first cock 93½, first hen 94, H. S. Ball, judge. On Barred Plymouth Rocks they won 1st, 2d, and 3d hens, 1st and 3d pullets, 2d cock, and 2d pen, Dr. S. T. Lea, judge. See their ad in this number.

A WATERLOO.

M. S. Gardner, Philadelphia, New York, who is a successful advertiser in THE FEATHER, has bred over 800 Barred Rock chicks this year, and he is of the opinion that they are the best he ever had. It is very evident that they are something good if we are to judge by their record at the New York State Fair, at Syracuse, September 1st, where he won 1st cock, 1st cockerel, 1st pullet, and 1st pen, in the strongest kind of competition, from Barred Rock breeders from four States. At Waterloo, the following week, his birds won all of the eight prizes offered. Notice his ad and write him if you are in search of Barred Plymouth Rocks.

SWEEPING THINGS.

Sid Conger, Box 50, Hope, Indiana, has made a decided hit in exhibiting this season at eight of the big fairs, including the State Fair at Indianapolis. He has won already this season 250 prizes, thirty grand sweepstakes over all. His Plymouth Rocks being winners seven times in the sweepstakes. He writes that he has just returned

from the great Royal show at Springfield, Ill., where he was again a winner, taking four firsts out of five on Barred Plymouth Rocks, also seconds on same breed; two firsts and a second on White Plymouth Rocks; three firsts out of five on Light Brahmas, and several seconds; three firsts out of five on Partridge Cochins, and seconds; four firsts out of five on Black Langshans. Out of the five breeding-pens shown, he won four first prizes and one second; also more than a dozen other prizes not enumerated above. Mr. Conger has 1,500 fine chicks of the following varieties: Barred Plymouth Rocks, White Plymouth Rocks, Buff Cochins, Partridge Cochins, Black Langshans, Light Brahmas, and Wyandottes. He is now quoting low prices on exhibition stock, and our readers will do well to write him, Box 50, Hope, Ind. His ad is in this number.

GREEN RIDGE FARM.

The Green Ridge Farm, Salem, Va., Walter Watson, proprietor, breeds White Wyandottes and Barred Plymouth Rocks, for utility purposes. Mr. Watson has been breeding these birds for some time past and has taken considerable care in building up good, healthy birds. He has considerable range; in fact, his birds are farm raised with unlimited range. He has recently increased the capacity of his plant to accommodate 1,000 laying stock, and 5,000 young stock. He will be pleased to give prices of his birds to readers of THE FEATHER who are in search of vigorous, farm-raised birds. He also breeds Buff Wyandottes. See his ad and write him.



CHAMPION SON. SCORE 95 BY I. K. FELCH, AT DAYTON, OHIO.
Written in ink across score card: "Every doubt scored against this bird."

Every Farmer Should Know This.

MORRISON, ILL., Oct. 1, 1898.

Dear Sirs:

Last year I lost thirty hogs from cholera out of a total of forty-five. This spring I started in with nine and determined to do something as a preventive instead of attempting to doctor them after they became sick. I believe that cholera is taken into the system through the stomach with the food, also that worms and other internal parasites together with lice, are responsible for conditions which allow cholera and other diseases to develop.

I had long used *Lee's Lice Killer* for killing lice on hogs, with the best results, and the thought came to me that what would kill lice should also kill worms and the disease germs. The manufacturers have never recommended it for internal use, but I thought I would experiment with it on my own account. After a few trials I commenced feeding it May 1st to all of the hogs in the swill and soaked grain, putting a small half teacupful of the lice killer into a barrel of the feed. I fed this every other day as much as they would eat. The first day or two they did not seem to like it, but after that they would eat it greedily.

I now have forty hogs and have not lost one from any cause this year. My May pigs now weigh 150 to 175 pounds, and I have never had them do so well or grow as fast as they have this season. Several other farmers about here have fed the lice killer to their hogs, and none of them have lost any animals, though all about us the hogs have been dying with cholera, especially places where hogs were sick last year.

I believe that *Lee's Lice Killer* is the best thing which can be used for lice and worms or other internal parasites, also for destroying the germs of hog cholera. I am confident that it has saved me many dollars this season. Last year I used \$15 worth of medicine and lost the hogs. This year I have used two gallons of *Lee's Lice Killer* at a cost of \$1.50, and have not lost any, but have a healthy, thrifty herd.

Every farmer should know of this as *Lee's Lice Killer* is sold in almost every town in the country for lice on hogs and poultry, and therefore can be readily procured at any time. Lice and worms are the greatest enemies of the hog, and where these can be readily destroyed, together with the germs of disease which enter the body through the mouth and stomach, by such a simple, cheap, and easily administered remedy, the swine breeder has a chance for a good profit which heretofore has been most precarious.

Respectfully, T. J. BURCH.

THE QUEEN CITY YARDS.

The subject of the above illustration is a Silver Spangled Hamburg cock, owned, bred and exhibited by Mr. F. L. Landon of Elmira, and is a bird far above the average.

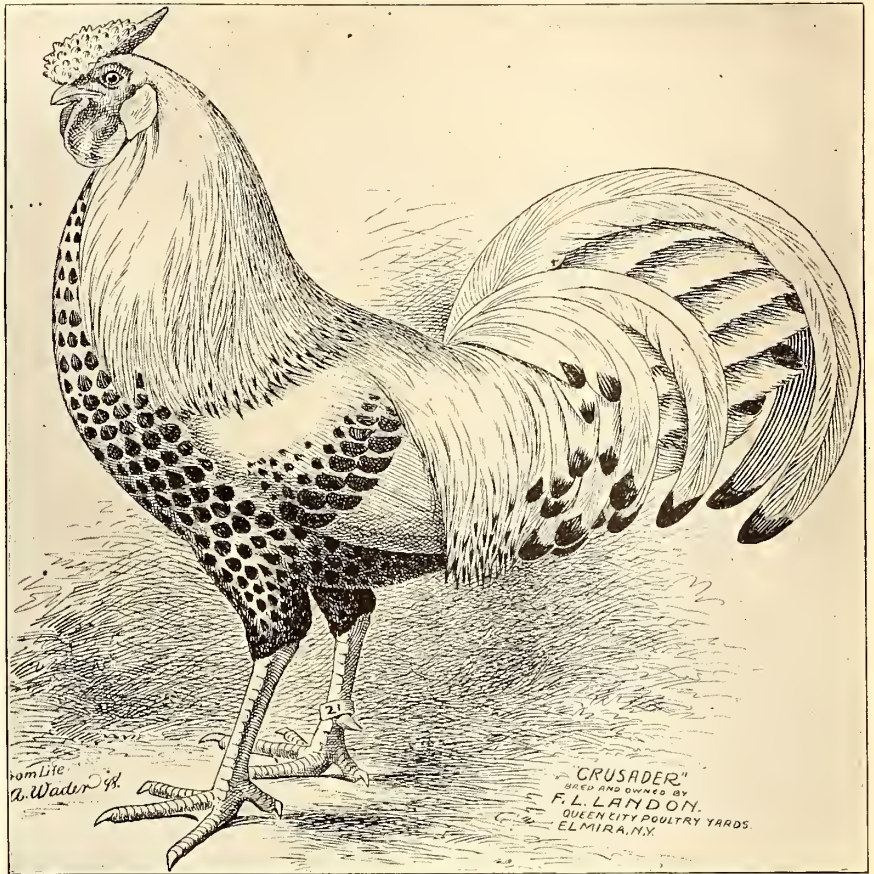
His father was an imported bird whose descendants have been as a rule of superior quality.

Crusader won first prize at the recent Binghamton show and also headed the yard from which Mr. Landon raised the first-prize pen of chicks at the same place.

TO INCREASE THE PROFIT.

PITTSBURG, PA., October 14, 1898.

Dear Sir:—I consider the Eureka Nest to be the best contrivance for the purpose intended that I have ever seen. If



CRUSADER—ONE OF F. L. LANDON'S "FIVE LEADERS."

more attention was paid to finding outteed to stay on. The Messrs. Keyes & Davis, Battle Creek, Mich., are the inventors and manufacturers of these leg bands. Readers of *THE FEATHER* will do well if they use these bands, as they will find them everything that is claimed for them. See their ad in this number and write them for circulars and prices.

Respectfully,
R. F. SHANNON.

GOOD BUFFS.

We are in receipt of a package of Buff Orpington feathers from James S. Warne, Washington, N. J. The feathers were taken from a cockerel and two of his pullets which were hatched May 29 last. These feathers are, according to our notion, very fine indeed, and bespeak a great future for these fowls. Their color is an even, pretty buff and the under-color is exceptionally good, being a shade or two lighter than balance of feather. Mr. Warne will exhibit his birds this season and he has imported another trio to use as breeders.

HIGH-CLASS BLACKS.

Titicus Valley Poultry Ranch, North Salem, N. Y., Mark Spencer, proprietor, has a small ad in our classified list, of his high-class Black Minorcas. Mr. Spencer has several leading strains in his yards, and numerous prize winners are among them. He has more than 200 fine specimens to select from, and will quote reasonable prices for them.

THEIR SECOND COURSE.

The Agricultural Experiment Station of the Rhode Island College is now sending out advance copies of circulars of their proposed second course of instruction in poultry culture, which will commence on January 9, 1899. Copies of the circular may be had by writing Arthur A. Brigham, Kingston, R. I.

THEY STAY ON.

The Climax Leg Bands are neat, light, durable, and secure. They are guaran-

teeed to stay on. The Messrs. Keyes & Davis, Battle Creek, Mich., are the inventors and manufacturers of these leg bands. Readers of *THE FEATHER* will do well if they use these bands, as they will find them everything that is claimed for them. See their ad in this number and write them for circulars and prices.

THE MONITOR CO.

The Monitor Co., Moodus, Conn., have begun advertising in *THE FEATHER*. This is the new company that is manufacturing the Monitor incubators and brooders, of which Mr. A. F. Williams is the inventor. These machines have been before the public for some time, and are well and favorably known. Full particulars and catalogue will be mailed gratis to all who wish them.

JUNIPER POULTRY YARDS.

Middle Village, L. I.,

October 18, 1898.

I have this day sold to T. F. McGrew, of New York City, all my Buff Cochins Bantams, old and young, including all my prize winners, also cuts and good-will in this variety, and agree not to handle, breed nor exhibit them for three years.

(Signed) RICHARD A. HOMEYER. Having secured all the above stock, shall offer for sale the greater part of same at exceedingly low prices.

T. F. MCGREW.

1267 Broadway, New York City.

KEEP ONLY THE BEST.

E. S. Wayne & Co., are proprietors of the Sylvan Grove Poultry Yards, at Bernardston, Mass. These yards breed Golden Wyandottes and Blue Andalusians exclusively. They keep only the best, and aim to produce better each year. They write us that their Goldens

are open laced from neck to tail, and in the males the black stripe in hackle and saddle is very prominent. Their Blue Andalusians are *blue*, and beautifully laced, and took every prize in sight at Greenfield, Mass., and Brattleboro, Vt., shows, last September. Their Golden Wyandottes also swept the boards at Greenfield, and at Brattleboro they won on Golden's 1st cock, 2d hen, and 3d on pen of chicks. They expect these chicks will make a record for themselves at the fall shows.

The farm is one mile south of the village, and the yards are fifteen in number and on a southern slope. They find their business is increasing to such an extent that they will be obliged to double the number of buildings. They are now putting up a new brooder-house, 72 feet long, which will contain eight rooms 9x12 feet, with a passage on the north side of the building. They give their personal attention to every detail of the business, the junior partner, Mrs. Wayne, having entire charge of the Blue Andalusians. We quote from a recent letter as follows: "We are subscribers to your paper, THE FEATHER, and get more practical information and better reading matter out of it than we do from any other poultry journal, and we take eight or nine others." Their ad is in this number and those of our readers interested in their specialties should write them for particulars and prices.

A TESTIMONIAL.

I have just bought a No. 2 Dandy Green Bone Cutter from Messrs. Stratton and Osborne, of Erie, Pa., and after giving it a fair trial I take pleasure in recommending Messrs. Stratton and Osborne to be a reliable firm and their bone cutters to any one who wants a first-class bone mill in every respect.

Yours truly, R. C. GRINDER,
Rosslyn, Va.

TESTED PITS.

P. H. Wofford, of Johnson City, Tenn., is a careful and experienced breeder of steel tested Pit Games. He claims his birds are as good as the best. All in need of such stock should write him for circular and prices.

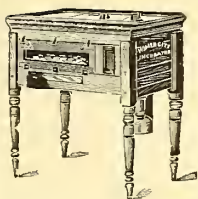
IDEAL BONE CUTTERS.

The Chapman Mfg. Co., West Upton, Mass., who manufacture the Ideal Bone Cutters, commence an advertisement in this issue which should attract the attention of all possible purchasers of a bone mill or cutter. Their machines stand high in the estimation of all who have used them and are what the name indicates, "An Ideal Bone Cutter." Our readers should get their catalogue giving full particulars before placing an order.

"CROWN PRINCE" STRAIN.

F. G. Powers, Sterling, Mass., has a new ad in this number. He breeds the Crown Prince strain of Single Comb White Leghorns exclusively, and says he wants nothing better. He has received many flattering testimonials from his customers reporting high per cent hatches. He will exhibit at the large shows this winter, where his birds will, without doubt, make a high record. He gives all orders his personal attention, and birds and eggs are shipped with great care. See his ad and write him for prices.

Mr. M. E. Phelps, Station D, Baltimore, Md., is agent for the Cyphers Incubators and Brooders for Baltimore.



ABSOLUTELY NO UNCERTAINTY

If you fit your plant with

Homer City Incubators and Brooders.

There is only one best machine. Ask the experienced poultrymen who are using "The Homer City." Great improvements for '99. Send for catalogue and price list.

BLAIRSVILLE MFG. CO., Blairsville, Pa.

The Poultry & Farm Supply Co., Boston, Mass., Sole New Eng. Agts.

The Home of the White Leghorn....

There is nothing better than

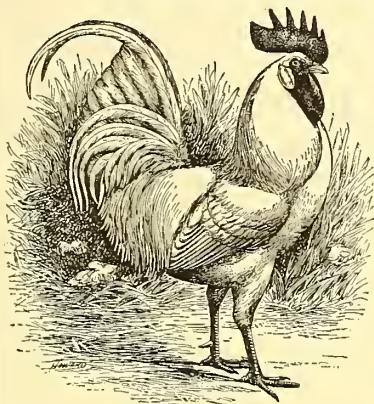
The Crown Prince Strain

Of Single Comb White Leghorns, and I breed nothing else.

...COCKERELS AND PULLETS FOR SALE...

Best of care taken in shipping eggs. I have testimonials which show that every egg hatched; 13 chicks from 13 eggs, and 60 chicks raised from 65 eggs. I have many such reports. Correspondence solicited. No business Sundays.

F. G. POWERS,
Sterling, Mass.

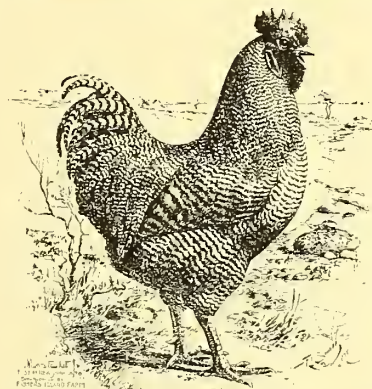


Fisher's Island Farm,

FISHER'S ISLAND, N. Y.

BARRED PLY. ROCKS

From best Blood in America.



White and
Buff Rocks....

Bronze and
White Turkeys.

Cornish
and White
Indian Games...

Pekin Ducks.

Pheasants.

Belgian Hares.

Fine Bucks and Does For Sale.

OUR show records are convincing. Send for Illustrated Catalogue. If you are Looking for Superior Belgian Hares, and Prize-Winning Birds, address

FISHER'S ISLAND FARM,

E. M. & W. FERGUSON, Proprietors,

FISHER'S ISLAND, NEW YORK.

J. F. CRANGLE, Poultry Manager.

Classified Advertisements

Fully prepaid advertisements of thirty words or less inserted under this heading at the following rates:

One time.....	\$.50
Three times.....	1.00
Six times.....	2.00
One year.....	3.50

READ CAREFULLY.

Copy may be changed as often as desired, though we advise running a standard ad. when possible, in order that buyers may become acquainted with it. Length of ad. is not limited, but additional words will be charged at the rate of 1½ cents each for one insertion, or 1 cent each for each insertion when run three times or more. Initials and figures count as single words.

PLYMOUTH ROCKS

BARRED PLYMOUTH ROCKS—Our stock has been noted for years for its deep, rich, clear zebra barring, so beautiful in the show room, and much sought after for the breeding yard; and we have youngsters coming on of rare beauty in great profusion. Prices to suit all. F. J. MARSHALL, Middletown, Ohio.

BUFF PLYMOUTH ROCKS ONLY.

When "Old Glory" proudly floats o'er Porto Rico, When Cuba "Queen of the Antilles" rises free, You can easily meet and pay the heavy taxes, By breeding Burdick's "Nuggets" don't you see?

My yearly sale now open. One hundred yearling hens; twenty-five yearling cocks; over four hundred youngsters; my prices reasonable; quality governs; birds from \$2 up. I will try to make you all happy. Write letters to H. S. BURDICK, Rome, N. Y.

THE EARLY BIRD CATCHES THE PRIZE.

January, February, and March-hatched chicks for the Fall shows a specialty. Buff, Barred, and White Plymouth Rocks, Brown and White Leghorns, and Black Minorcas; bred from 1st prize winners for years at Mt. Gretna, Washington, and New York. Prices reasonable. Write. J. W. BRUCKART, Lititz, Pa.

WHITE PLYMOUTH ROCKS exclusively.

Bred for exhibition and practical purposes. Hagerstown, Oct. 1898—2 firsts out of 3 entries. Stock and eggs for sale. J. F. DEFENDORF, Garrett Park, Md.

TWO B. P. ROCK COCKS for sale, each a winner as cockerel last season, one at Charlotte, Lambert, judge; other at Shelby, Marshall, judge. Eggs when you want them. B. S. DAVIS, Asheville, N. C.

WILSON BROTHERS' BUFF ROCKS.

In order to make room for winter we will sell first-class breeding stock, old or young, at greatly reduced rates. Exhibition birds a matter of correspondence. We are especially strong in fine pullets, clear in wing or tail or both. Satisfaction guaranteed. C. G. & P. WILSON, Sag Harbor, N. Y.

BUFF PLYMOUTH ROCKS ONLY.

"Pure Burdick strain." A few yearling cocks and hens, 100 up to date cockerels and pullets; prices reasonable; quality governs; birds from \$1 up; try me. VERNON K. DAYHOFF, Chewsville, Md. Vice-Pres. American Buff Ply. Rock Club.

FIRST-PRIZE BUFF ROCKS FOR SALE.

Saratoga, 1894-'5-'6 and '8, 4 firsts, 2 seconds, 97 entries, Northrup, Judge, Troy, '96, Rochester, '97. Lemon-buff, pure under-colored birds \$2. Exhibition birds especially. Satisfaction guaranteed. N. V. WITBECK, Burnt Hills, N. Y.

JAS. S. WARNE, Washington, N. J., two fine pens of yearling Buff P. Rocks for sale, these are my breeders and they are fine. Young birds for sale; some prize winners.

OVERBAUGH'S BARRED PLYMOUTH

Rocks. Won at Mt. Gretna, 1898, 1st and 2d cock, 1st and 4th hen, 3d cockerel, 3d pullet. \$5 gold special, and Pennsylvania State Poultry Association's bronze medal for best display. Hanover, Pa., 1st and 2d pair of fowls. 1st and 2d pair of chicks, and 2 specials. Young stock for sale. W. H. OVERBAUGH, JR., Hanover, Pa.

E. M. VAN NESS, 514 13th Street S. E., Washington, D. C., has for sale some very fine Barred Plymouth Rocks. Write for his prices, they are low.

15 WHITE PLY. ROCKS scoring 90 to 94 points. 20 Barred. Trio of Buff Pekin Bantams. Bargains! T. G. ASHMEAD, Williamson, N. Y.

THEO. REYNOLDS, Danbury, Conn., breeds Barred and Buff Ply. Rocks as good as the best, as his winnings show. He has a fine lot of stock for sale. Prices low.

WHITE ROCK POULTRY FARM. White Plymouth Rocks exclusively. (Hawkins' strain.) 100 large white birds for sale. My birds win wherever exhibited. None better. JESSE F. WITBECK, Box 48, Burnt Hills, N. Y.

W. S. HART, Stamford, N. Y., breeds Burdick's Buff Plymouth Rocks and Gold Dust strain of Buff Cochins Bantams. At Stamford, 1898, won 4 firsts and 1 second prize. Satisfaction guaranteed or no sale.

LEGHORNS

CEDAR HILL POULTRY FARM—Write to Cedar Hill Fruit and Poultry Farm for prices on Single Comb Brown Leghorn, Barred P. Rock, Buff Cochins and Light Brahma fowls and eggs. Some fine surplus cockerels of first-named breeds for sale low. Eggs for incubator use \$5 per 100; good common eggs (large breeds), \$2.50 per 100. R. S. COLE, Harmons, Md.

FORSYTH STRAIN S. C. BROWN LEGHORNS. 12 prizes on 10 entries at Rochester, 1897. Fine young and old stock for sale, cheap, that will score into the 90's. Write wants. FRANK G. RICE, Dansville, N. Y.

PLEASANT VIEW POULTRY YARDS.

R. C. Brown Leghorns. They have won prizes at all the leading shows. Have some fine cockerels and pullets and this season's breeders for sale; birds are strong and healthy and have free range of farm. Prices low. W. G. FRONHEISER, Prop., Pottstown, Pa. Address, J. B. HOFFMAN, Mgr., Sanatoga, Pa.

WAYNE POULTRY YARDS.

Coatesville, Chester Co., Pa., J. H. SCHERER, Prop. S. C. B. Leghorns exclusively—Winners at the following shows in 1897: Pottstown, Pa., Scranton, Pa., Mt. Gretna, Pa., Carlisle, Pa., Seneca Falls, N. Y., Sanatoga, Pa. Eggs, \$1 per setting. Stock for sale. Postal for circular.

SINGLE COMBED BROWN LEGHORNS.

Ninth season. Single birds, pairs, trios, or pens for sale. Also a few Cornish Indian Game cockers. HOWARD A. PINNEY, Sheffield, Warren Co., Pa.

MT. GREDNA, 1898, MARBURGER'S BUFF

Leghorns, Barred and Buff P. Rocks, won their share of 1st, 2d, and 3d prizes. Won 1st and 2d on Buff Leghorn pullets in the strongest class we ever saw. My last previous exhibit of Barred Rocks, Mt. Gretna, 1896, won 1st cock and cockerel. This is sufficient proof that I breed the stuff you want. Will ship on approval at right prices. State what you want. A. W. MARBURGER, Denver, Pa.

VERY CHOICE S. C. W. LEGHORN cockerels

direct from Blanchard's eggs. Extra fine S. C. B. Leghorn cockerels of N. Y. and N. J. choicest strains combined. H. E. VAN DEMAN & SON, Parksley, Va.

SINGLE COMB BROWN LEGHORNS.

A few fine cockerels from first-class strains at \$1 each. 2 fine cocks for breeding at a bargain. 3 Mottled Ancona cockerels, cheap or exchange. A. S. GORDON, 209 Chestnut St., Towanda, Pa.

BRAHMAS

CHOICE UP-TO-DATE STOCK of Light

Brahmas, Single Comb Brown Leghorns, and Barred Plymouth Rocks. Eggs, \$1 per 13. Stock for sale. Satisfaction guaranteed. If you wish high quality and fair treatment, address, J. M. PORTER, Morristown, N. J.

CHESTNUT GROVE POULTRY YARDS

JOSIAS J. GEORGE, Proprietor. Yards at Jenkins P. O., Long Green Valley, Baltimore Co., Md. City address, 443 North Street, Baltimore, Md. "Autocrat" strain Light Brahmas. Early-hatched cockerels and pullets for sale. Cockerels, \$3 to \$5; trios, \$5 to \$8. Yard headed by cockerel 1st prize at Washington, 1897.

STEPHEN SPENCER, Morris Plains, N. J.,

will offer eggs from high-class Light Brahmas and Buff Cochins, balance of season, at \$2 per 13; \$5 per 3 settings. I have bred America's best for nearly 20 years. Exhibition and breeding stock for sale. Cockerels at low prices. Write for particulars. Mention The Feather.

L. H. MORSE, Newark, New York, originator

and breeder of the celebrated Imperial strain of Light Brahmas, unsurpassed for their great size, grand shape, superb color, fine comb, profuse middle-toe feathering, and superior laying qualities. The Imperial Light Brahmas are the result of careful study in mating for finest points, without detriment to utility. They have been bred continuously since 1881, and are a vigorous, prolific strain, possessing perfect Brahma character according to the Standard of Perfection. First-class birds for sale reasonably. Eggs, \$2 per 13. Satisfaction guaranteed or money refunded.

SILVER WYANDOTS EXCLUSIVELY.

Winners and layers; healthy, vigorous stock. March and April hatches now being ordered. Prices reasonable. Satisfaction guaranteed. Write. J. M. HAMBLIN, HIGHLAWN FARM, Vienna, Fairfax Co., Va.

ERIE POULTRY YARDS, Home of the Light

Brahmas. Choice breeding cockerels, \$2 to \$4; pullets, \$1 to \$3. Satisfaction or no sale. EMORY E. BANKS, Box 275, Crittenden, N. Y.

GAMES

CHAS. T. CORNMAN, Carlisle, Pa., breeds all varieties of America's best Games, Game and Variety Bantams. If you do not believe it, look up the awards at the great shows. Eggs in season. Stock for sale. Send for price card.

FINEST GAMES ON EARTH. Circular free.

Irish Black Reds, Heathwoods, Irish and Mexican Grays, Cornish Indians, and Ropen Ducks. Buy now and save money. Mention The Feather. C. D. SMITH, Fort Plain, N. Y.

WYANDOTTES

GOLDEN, PARTRIDGE, and BUFF WYANDOTTES.

My yards now contain McKee's best yards, bought from his widow. My own have always won at Mid-continental, Kansas and Nebraska State Shows. Stock and eggs for sale. Send for catalogue. W. A. DOOLITTLE, Sabetha, Kansas.

BUFF AND WHITE WYANDOTTES.

Winners of 1st prizes at Hagerstown, 1894 and 1896; Reading, 1895; Baltimore, 1895; Cleveland, 1895; West Chester, 1895, 1896, and 1897; Plainfield, 1896; Pittsburg, 1896; Washington, 1896 and 1897; Mt. Gretna, 1897. Choice breeding and exhibition stock for sale. A. P. GROVES, Chestnut Hill, Philadelphia, Pa.

MURRAY HILL POULTRY YARDS.

White Wyandots, White Plymouth Rocks, Ringlet Barred Plymouth Rocks direct from E. B. Thompson. Stock and Eggs for sale. Satisfaction guaranteed. C. B. WIGGINS, Greenport, Suff. Co., N. Y.

COCHINS

NATHAN R. RAMBO, West Chester, Pa.

Buff Cochins, winners at Mt. Gretna, West Chester, and other shows. Early cockerels and pullets for sale at reasonable prices.

FOR SALE.

Our entire lot of Buff Cochins to quit the business. At Hagerstown, '97, won 1st, 3d, and 5th on pullet, 1st cockerel. Hagerstown, '98, won 2d pen, 1st and 4th cockerel, 1st and 4th pullet, 1st, 2d, and 3d hen. A. W. RUDY & SON, Hagerstown, Md.

MINORCAS

BLACK MINORCAS EXCLUSIVELY.

(North-up strain.) By importing new blood in my breeding yards every year my birds are kept up to the highest standard of perfection. Stock and Eggs for sale. Hatch guaranteed. E. D. CROUCH, 1013 G Street, S. E., Washington, D. C.

GLENN H. JOHNSON, Groton, N. Y., is com-

pelled to reduce young and old stock of White Minorcas and White Wyandottes to make room in winter quarters. Prices low considering quality.

FORGING AHEAD. SPENCER'S SINGLE

and Rose Comb Minorcas cleared the deck at the Cambridge Valley Fair; four firsts, six seconds, three thirds, the third season they have been winners. MARK SPENCER, North Salem, New York.

DOANE'S "ADIRONDACK STRAIN" of

Black Minorcas, wins in open competition. At Madison Square Garden, 1898, birds of my own breeding won "first cock," third cockerel, and fourth pullet. Two cock birds one year old, good breeding hens, and choice exhibition cockerels, hens, and pullets. As I describe them, or no sale. Circular. J. H. DOANE, Lock Box 145, Gouverneur, N. Y.

POLISH

POLISH. S. F. Gulliford, Akron, Ohio.

Importer and breeder of White Crested Black, Bearded Silver, Bearded Golden, and Bearded Buff Laced Polish, also Silkies of the finest quality. It has been my aim for many years to breed these beautiful fowls to the highest standard of perfection. My show record stands as evidence. Birds for sale at all times and eggs for hatching in season.

POLISH. CHAS. L. SEELY, Afton, N. Y., the

veteran breeder of White Crested Black and White Crested White Polish, offers extra fine chicks, single birds, pairs, and trios at living prices. Write for show record, and state just what you want.

LANGSHANS

BLACK LANGSHANS EXCLUSIVELY.—Fine, large, vigorous stock, good color and true shape. A limited number of settings from best breeding pen at \$3 per 15. A. M. CORDRAY, 752 Carroll Ave., Waverly, Baltimore, Md.

F C. BEACH, Plain City, O., breeder of Black Langshans exclusively. Eggs, \$1.50 per 13. Scored and unscored birds for sale this Fall.

FOR SALE.—Crystal Strain of White Langshans, cockerels and pullets. Eggs in season. Any wishing this noted strain will do well by corresponding with J. W. TEDRICK, Williamson, Pa.

BANTAMS

WHITE COCHIN BANTAMS, Black Cochins Bantams, Buff Cochins Bantams—Young stock for sale bred from New York and Boston winners. No circulars. No eggs. DR. WM. Y. FOX, Taunton, Mass.

HOW IS THIS? Washington, Hackensack, Elmira, and West Chester, Hartford, Boston, and New York, 30 entries, 34 prizes on Silver Seabright Bantams. Stock for sale. Sell no eggs. A. C. TREICHLER, M. D., Elizabethtown, Pa.

AT WASHINGTON, D. C., won 15 prizes on 15 entries, on Golden and Silver Seabrights, Silkies, Bearded and Non-bearded White Polish, Buff, White, Black, Partridge, and Cuckoo Cochins, Brown Red, Red Pyle, and Birchen Game Bantams. No eggs. Stock for sale. W. W. WALLICK, York, Pa.

GOLDEN AND SILVER SEABRIGHT, BLACK Rose Comb, Silky, White Crested, White Polish, White, Black and Black Tailed Japs, Buff, Black and White Cochins Bantams; Fantails, White, Colored, Saddles, Tails and Splashes. Write for wants. My prices are low. Stock first class. IRVIN S. MILLER, 397 Chew St., Allentown, Pa.

\$1 EACH, GOLDEN SEABRIGHT BANTAMS, scoring 90½; also first-class Houdans. HARRY MILLER, Box 27, Deerfield, Ill.

OVER 100 LITTLE GRAINS OF GOLD Strain of Buff Cochins Bantams for sale at from \$1.50 to \$5 each; all are nice clear buff color, true Cochins shape, bred from winners and will breed winners. This is one of the most popular strains of Buff Pekins now bred. Remember I could not half supply the demand for these little beauties last year. Will not sell a cull at any price. I guarantee satisfaction or money cheerfully refunded. Have the finest birds I ever raised now for sale. Correspondence cheerfully answered. L. L. LUCAS, Oil City, Pa.

AMERICA'S BEST GOLDEN AND SILVER Seabright, Buff Laced and White Polish and Black Cochins Bantams. The choicest New York winners. Illustrated circular containing winnings free. C. H. PROPER, Edmeston, N. Y.

LIGHT BRAHMA BANTAMS. Won every first prize offered at New York, '98 and again at Poughkeepsie I made a clean sweep, winning 5 straight 1st prizes. A few pairs of grand birds for sale. GEO. W. HILLSON, Amelia, N. Y.

BEAUTIFUL COCHIN BANTAMS—Buff or White, at \$2 per pair. WM. M. CONNERS, Box A, Weston, Somerset Co., New Jersey.

SPANISH

BLACK SPANISH—1st and 3d Madison Square, 1st and 3d Rochester, and 1st, 2d and 3d Wilkes Barre, in 1898. None better. Also breeders of Brown Leghorns (Howell and Forsyth stock). Eggs, \$1.50 per 13; \$2.50 per 26. Satisfaction guaranteed. J. W. RAEDER & SON, 57 Ross St., Wilkes Barre, Pa.

DUCKS

\$1 EACH. We have 300 Imperial Pekin Ducks, Rankin and Newman stock, to sell as breeders. Address, PLEASURE POULTRY YARDS, Marysville, Pa.

RANKIN AND POLLARD PEKIN DUCKS direct. Fine large stock \$1 each. Toulouse Geese from prize winners \$2 each. Belgian Hares \$1.50 per pair. C. L. McFERRIN, Darlington, O.

A FEW CHOICE IMPERIAL PEKIN DRAKES for sale at \$1 each. Your money's worth or your money back. MRS. LENA CARTER, Alexandria, Va.

TURKEYS

150 BRONZE TURKEYS, bred by my 45 and 47 lb. toms, and 22 to 33 lb. hens. For great size, grand plumage, and form my birds have no equal. Sure winners and elegant breeders at fair prices. Stamp for reply. GEO. WOLF, Seneca Falls, N. Y.

RABBITS

C HAMMERSCHMIDT, Buffalo, N. Y., headquarters of the large Belgian Hares, bred up to standard and large size. Old and young for sale cheap. Write to me before buying elsewhere. Mention The Feather.

FANCY PIGEONS

DR. CHAS. H. A. MEYER, 1033 N. Caroline St., Baltimore, Md., breeder of prize-winning English and African Owls, Satinets, Blondinets, Bluettes, and Turbits. Winners at all leading shows.

G A. FICK, 1300 N. Washington Street, Baltimore, Md., breeder of prize winners, Magpies and Swallows in all colors. Prices reasonable considering quality of stock.

150 WHITE FANTAILS at \$2 and upwards a pair. If you want White Fans of any grade write me. E. A. HOLBROOK, Winchester, Mass.

BLACK FANTAILS. One pair of elegant Fans at a rare bargain. Cock very stylish, elegant tail. Winners of first and cup at Springfield, and winner of first at Peoria. A fine hen for a mate. The pair only \$5. W. J. LINCOLN, Mt. Pulaski, Ill.

DR. BEUST, New Albany, Indiana, offers at rare bargains high-class English Carriers, Jacobins, Archangels, Satinets, Blondinets, also Gold Pheasants, B. Cochins Bantams; and thoroughbred female Fox Terriers. Stamps for reply.

EXHIBITION WHITE POUTERS. My birds take the leading prizes at the largest shows, Boston, New York, Louisville, etc. A few grand birds for sale. Catalogue ready Oct. 1st. Send postal. SAM. L. SMYTH, 826 River Street, Troy, N. Y.

FOR SALE.—Fantails, Jacobins, Turbits, Pouters, Carriers, Trumpeters, Magpies, Swallows, Long-muffed and Clean-legged Tumblers, Nuus, Highflyers, Homers in all colors. Stamp for reply. GEO. SCHRADE, Sykesville, Md.

YELLOW WING TURBITS, White Dragons, Yellow Silver Owls. Finest stock. Prices low to reduce stock. Large squab-breeding Homers, 75c a pair upwards. C. M. SMITH, JR., Perry Street, Johnstown, N. Y.

C W. MATTHIAS, 1002 Lincoln St., Milton, Pa. Spanish-American War has reduced prices greatly. Closing out sale of fancy pigeons; Pouters, Jacobins, Swallows, Magpies, Fantails, Blondinets, Owls, Turbits, Outside Tumblers, Baldhead Tumblers, \$1, \$1.50, \$2, and \$3.

WHITE JACOBINS ONLY. I have 50 White Jacks now for sale. Some of the finest stock in America, fit to win anywhere. Stock and show birds for sale. Satisfaction guaranteed. H. CLOSE, Dunkirk, Ind.

PIGEONS! 50 Homers, 4 for \$1, \$2.40 per dozen; Yellow and Red Tumblers and Yellow Turbits, \$2 per pair; White French Nuus, \$3 per pair. E. F. BARRY, Machias, Maine.

PLEASANT VIEW PIGEON LOFTS. Homers of all the leading strains. Dragons, all colors, young and old birds for sale at all times at low prices. Guarantee to please. J. B. HOFFMAN, Sanatoga, Pa.

POUTERS, ARCHANGELS, MAGPIES, Jacobins, Inside Tumblers, Dragons, and Homers. Many show birds among them. I guarantee birds as represented or refund money. Stamp if convenient. J. W. TEDRICK, Williamson, Pa.

FOR SALE, EXHIBITION BIRDS in Pouters, Carriers, Blondinets, Satinets, Silverettes, Turbits, Frillbacks, Swallows, Snells, Archangels, Dragons, Tumblers, Moorcaps, Magpies, Owls, Nuus, Bruner Pouters, and Black Baldhead Tumblers. Satisfaction guaranteed. J. H. MEHRING, Littlestown, Pa.

HOMING PIGEONS

HOMING PIGEONS mated for flying or squab breeding, \$1 and \$2 per pair. Books on Breeding and Training 25 cents (stamps); Money in Squabs, 20 cents; Pigeon Queries, 25 cents; Dogs, Rabbits, Cage Birds, Poultry, 10 cents each. Seamless and open aluminum leg bands, pedigree blanks and cards. Catalogues free. F. L. HOOPER, Station D, Baltimore, Md.

GREAT SACRIFICE SALE for alteration. For Squab raising, thirteen large Dutchesse, \$7.50. Twenty well-marked Homers, \$7.50. All tried, healthy breeders. DE LACHAN RANCH, Crystal Lake, New Jersey.

ROYAL RED SEAL LOFTS, 1357 Wilson Ave., Cleveland, Ohio; breeder, importer, and flyer of the speediest strains of Homing Pigeons exclusively. My annual catalogue, containing pedigrees of 30 pairs of choice breeders mailed on application. Stamp if convenient. A grand lot of record breeders for sale.

HOMERS—Bred from record stock from the best lofts in this country. At only \$1 per pair either old or young. Satisfaction guaranteed. W. J. LINCOLN, Mt. Pulaski, Ill.

VERDEMONT HOMING LOFTS.—A choice lot of speedy and reliable trained Homers for sale at \$1 per pair while they last. Bred from record birds from a number of the most noted strains. Pedigrees given and satisfaction guaranteed. C. E. BIRELY, Ladiesburg, Md.

MISCELLANEOUS

LIGHT AND DARK BRAHMAS, Buff Cochins, S. S. Hamburgs, 2 pens Pit Games, 4 Indian Game hens, Black Minorcas, and Buff Leghorns for sale. Black, Red, and Yellow Magpies, and Blue Beards. Will exchange for poultry. A. C. FULTON, York, Pa.

BARGAINS!!! Barred Plymouth Rock hens, or young stock, \$2 per pair; \$5 per six; \$10 per fourteen. Narragansett Turkeys and Pekin Ducks. Enclose stamp. F. K. W., PLEASURE POULTRY YARD, Opekiska, W. Va.

LIGHT BRAHMAS, Barred and White Rocks, R. C. W. Leghorns, W. C. B. Polish, B. B. R. G. Bantams, P. Ducks, Brouze Turkeys, W. Guineas, W. C. Fan Pigeons, Belgian Hares, Ferrets. E. F. TIFFANY, Brooklyn, Pa.

COUNTY LINE POULTRY FARM, breeds prize-winning Barred and White Plymouth Rocks, Light Brahmans, Pekin and Rouen Ducks, and Toulouse Geese. 400 head of young stock for sale. Circular free. A. G. BARLOW, Box 51, Millers, N. Y.

A W. SCHULTZ, 542 Hellertown Ave., South Allentown, Pa., breeder of Buff, White, and Black Pekins, W. C. W. Polish, and Seabright Bantams. Eggs and stock for sale.

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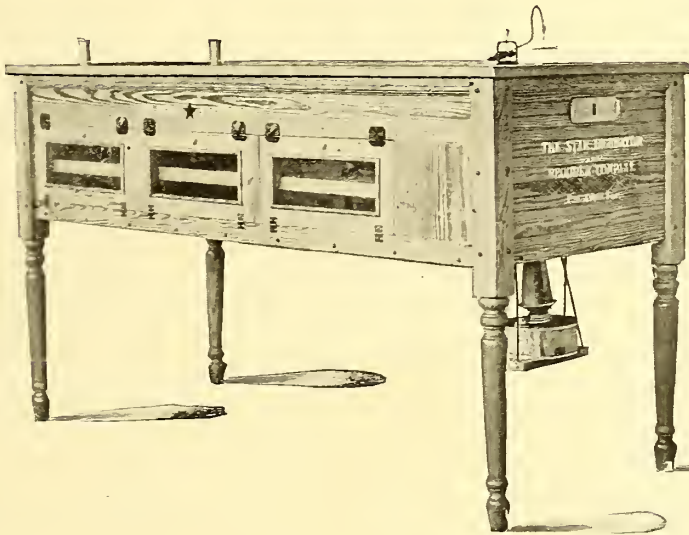
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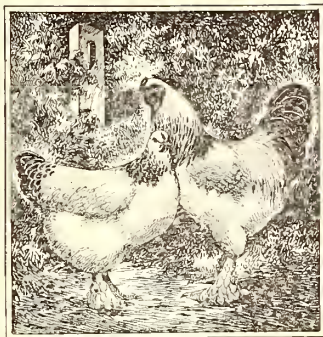
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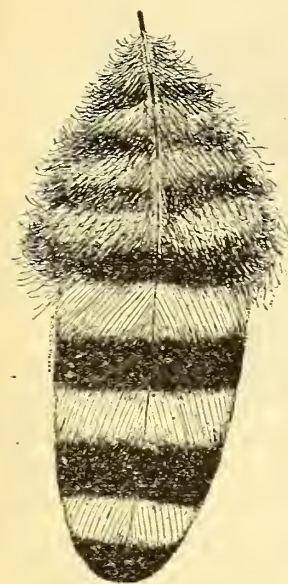
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At the Dayton, Ohio Show, Mr. I. K. Felch gave one of my cockerels, a bird of my own breeding, a score of 95 points, the highest score ever given by this judge to a Barred Plymouth Rock cockerel. 400 early chicks to select from for fall shows. Show birds fit to win in fast company. Send for catalogue giving show record for 6 years, (not equalled). My birds have been scored at score-card shows, not comparison, or privately.

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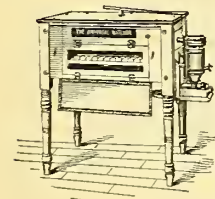
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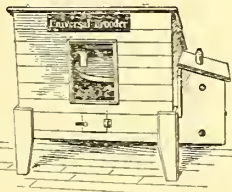
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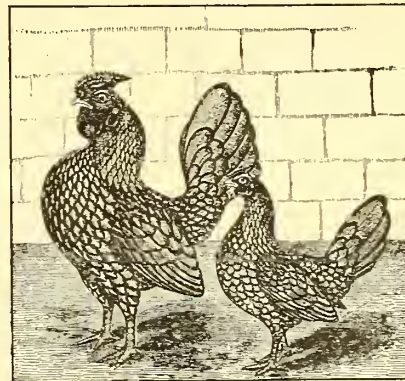
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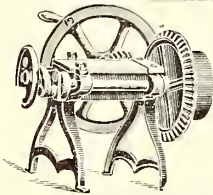
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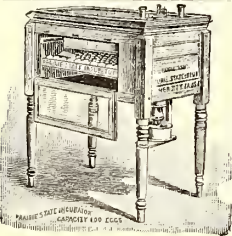
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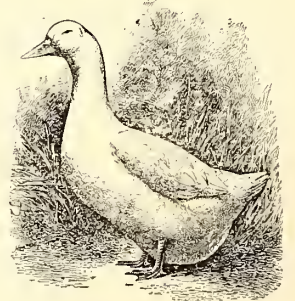
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WHITE WYANDOTTES

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These machines meet a long felt want among poultrymen. They make possible the feeding of green and succulent food in the dead of winter when every spear of grass and green thing is killed by frost. They convert all kinds of roots into fine particles like angle worms that are greedily eaten by all fowls, big and little. The feeding of vegetables thus prepared doubles the egg product and saves fully 50% of the grain feed. It makes hens lay in winter when eggs are worth the most money. Endorsed by all leading poultrymen of the country. Buy one and make money from your fowls this winter. Made in four sizes. Price, \$1. and up. Write for free circulars.

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1 Solid Buff Leghorn cock (a winner)	\$8 00
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Raised 1,000 Young Birds

This season and offer low prices to move them. My stock won 60 per cent of the prizes in Game classes and 30 per cent of the prizes in Buff Leghorn class at the Mt. Gretna show. Send for list of awards and catalogue. Satisfaction or money back.

**BUFF LEGHORNS,
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Cornish Indian Games****I BREED**

Address correspondence to

**George W. Kinzer,
New Holland, Pa.****THE EARLY PULLET**

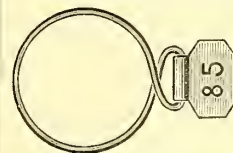
makes the profitable winter layer. To be early, she must be hatched early. Hens are contrary things & often not ready to hatch when you are ready to set them. Here is where

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must be strong enough to protect its contents and carry it safely to market. Its strength will depend much upon the food the hen consumes and upon her general health. Only sick or overfat hens lay soft-shelled eggs.

PIONEER CLOVER MEAL

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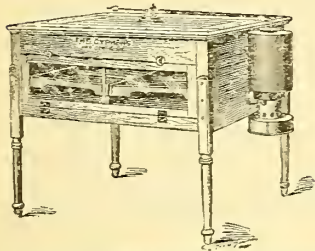
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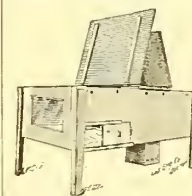
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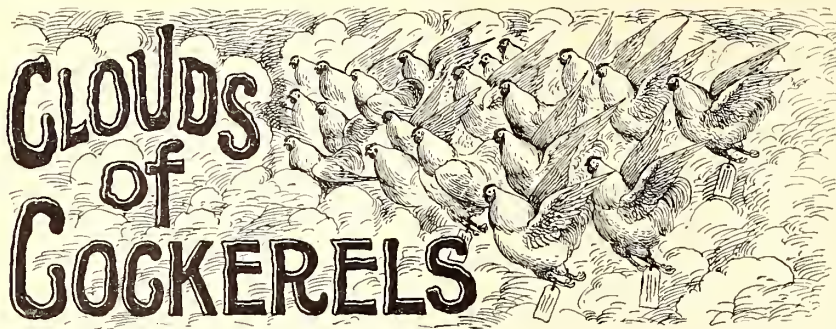
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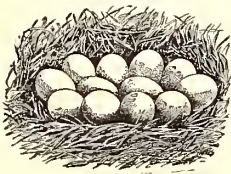


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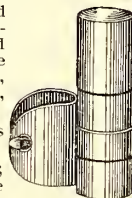
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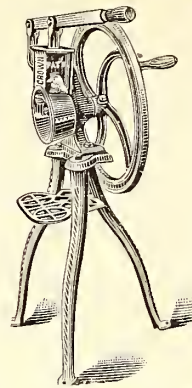
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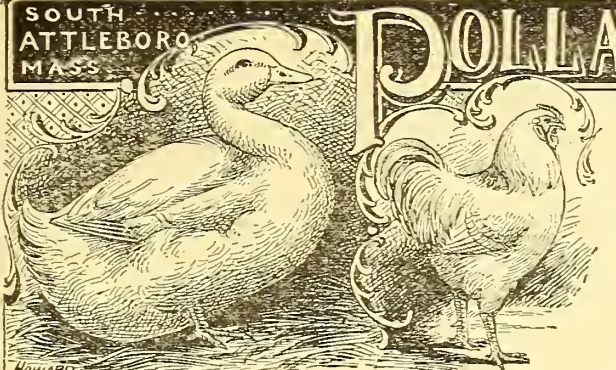
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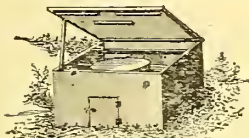
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Some good ones coming along that will be heard from later.

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BUFF PLYMOUTH ROCKS,
SILVER WYANDOTTES,
WHITE WYANDOTTES,**

Have won more prizes at the leading shows of America and England than all others. The product of my 1898 matings is superior to that of previous years.

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Has been reached by

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At Madison Square Garden, New York, 1898. America's Greatest Show.

14 PRIZES ON 15 ENTRIES.

1st and 3d on cocks, 2d, 3d, and 5th on cockerels, 2d, 3d, and 5th on hens, 1st and 2d on pullets, and 1st, 2d, and 3d on exhibition yards. **Grand special for best Langshan any color.** In the last four years the bulk of all the prizes has been won by this strain at this great show, viz:

51 prizes out of 57 competed for.

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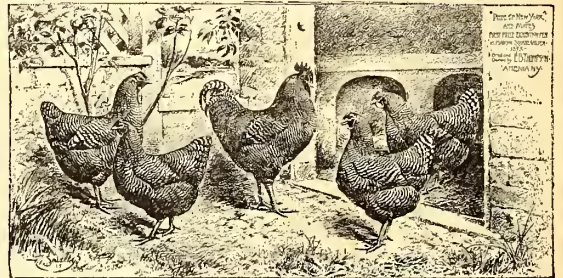
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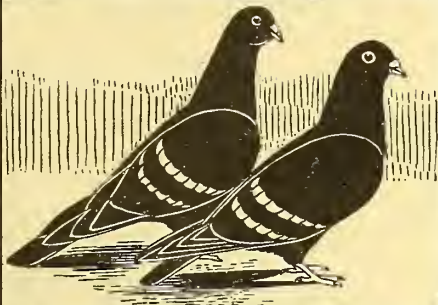


First-Prize B. Rock Pen at New York, February, 1898.

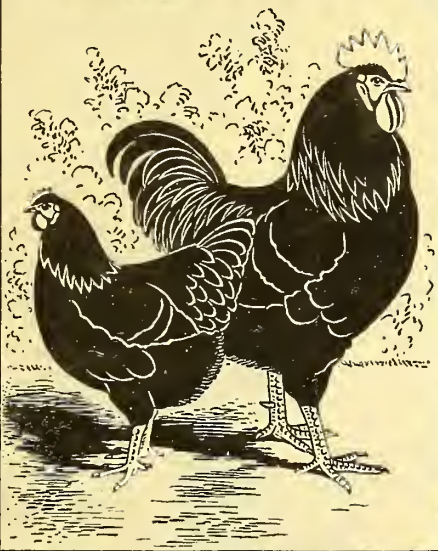
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MAY 31 1899.

The Feather



PIGEONS.



POULTRY.

WASHINGTON, D. C.

Vol. IV. DECEMBER, 1898. No. 3.

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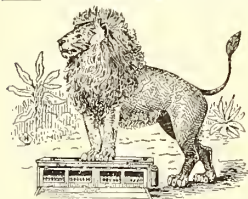
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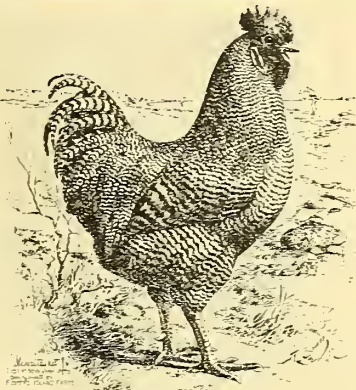
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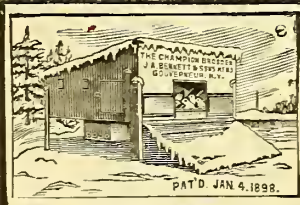
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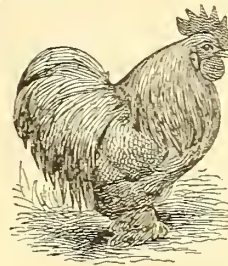
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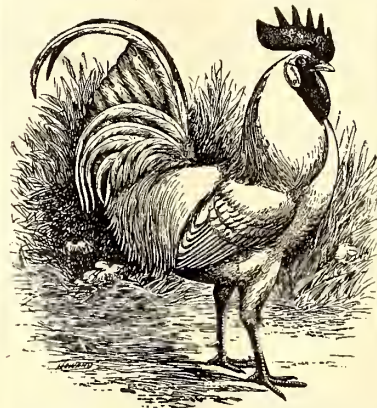
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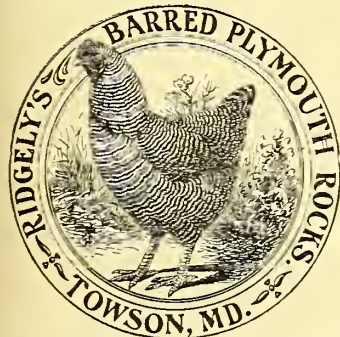
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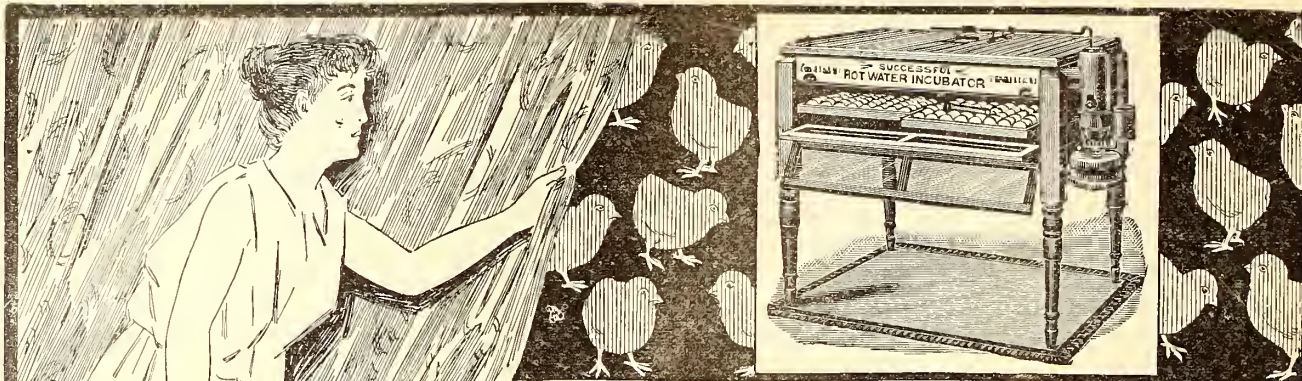
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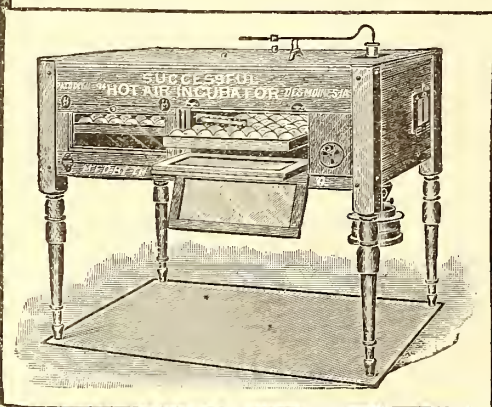
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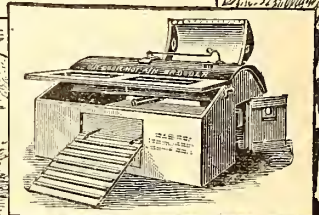
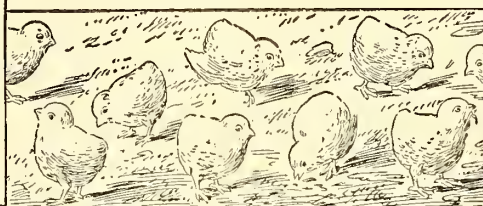


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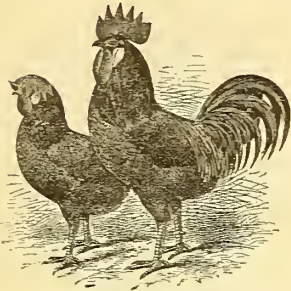


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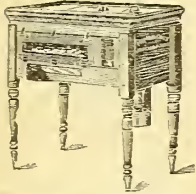
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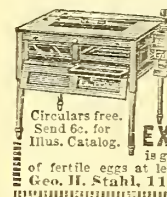
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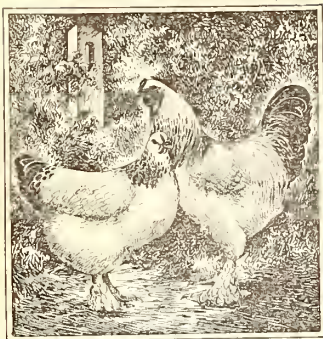
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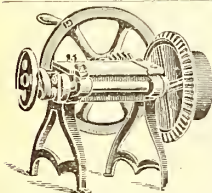
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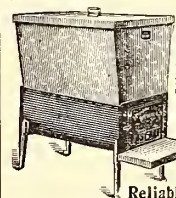
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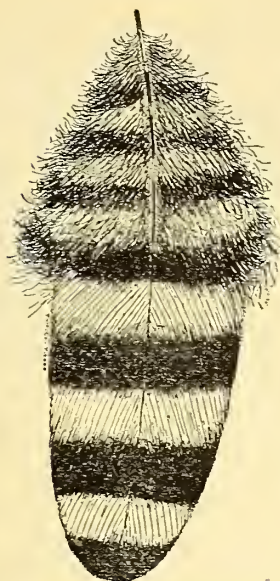
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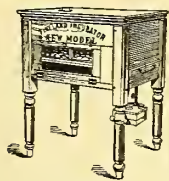


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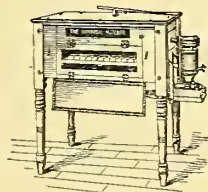
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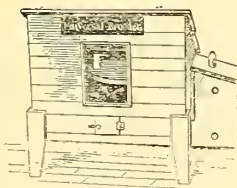
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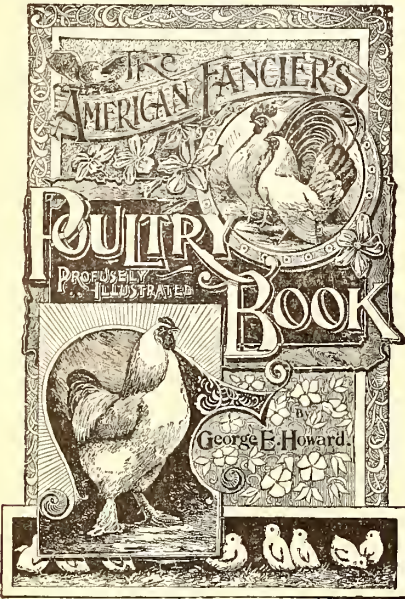
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A National Journal Devoted to Poultry, Pigeons, Birds, Etc.

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WASHINGTON, D. C., DECEMBER, 1898.

FIVE CENTS.

PRACTICAL TURKEY RAISING.

The Recognized Varieties of Turkeys—General Purpose Turkeys—Mating—Selecting Breeders—Borrowing and Buying Poor Male Birds—One Main Reason for the Decline in Turkey Breeding in the Eastern States.

The Laying and Hatching Season.

BY J. F. CRANGLE.

PART I.

THERE are six recognized varieties of turkeys in the American Standard of Perfection. For general purposes the Bronze Turkey is considered to be the best, for many reasons.

They are very hardy, we might say the hardiest of all turkeys; good layers, and the best of mothers. A Bronze Turkey will lay from eighteen to forty eggs a year under proper management. In breeding turkeys a person should select stock for the season not later than the first of December preceding, by selecting out the finest shaped birds. One of the most particular points is to be sure that their breast bones are all straight, as many turkeys have crooked breast bones. When speaking of the breast bone we might say that it is the bone which runs between the legs. A person can easily ascertain whether the bone is crooked or not by catching the turkey and examining the breast bone by feeling of it. If the stock is selected early in the season, say not later than December, we are quite sure, from experience, better results can be attained. It takes a Bronze Turkey several weeks to get wonted to a place.

It is generally considered that one male bird should be mated to from five to eight hens, but a good, vigorous male is capable of taking care of twenty-five hens, if necessary. But right here we might say that it is not a good plan to mate one male turkey with too

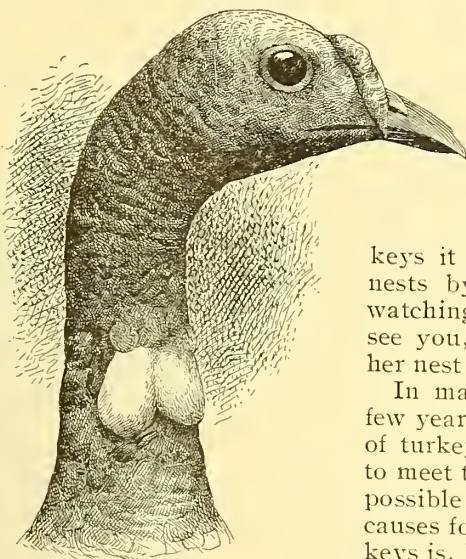
many hens, for the simple reason that a male only has one connection with the female. If the male bird, from any cause whatever, should not fertilize the litter of eggs, the best part of the whole season is lost, because if the female has been served by the male bird she will go off and make her nest, lay her litter of eggs, and the eggs not being fertilized, the same is lost. So it is not wise to depend too much on one male bird with too many females. One of the best ways I know of to overcome that difficulty is to have two male birds, with any number of hens from five to twenty-five, and allowing one male bird to run with the females every day alternately, a great deal of the risk spoken of above will be avoided; but under no consideration allow both toms to run with the hens at the same time, for as a rule you will generally make a failure. After the first of March you will find that the females will begin to wander a little way from home, and this is about the time they are beginning to look up a place to nest. This will generally occur about two weeks

before they begin to lay. If you wish them to lay near by, they can be made to do so in many cases by supplying nests for them made out of old brush or boards placed together alongside a stone wall. The females like to hide themselves away when they lay, but with ordinary farmers who only have from five to ten tur-

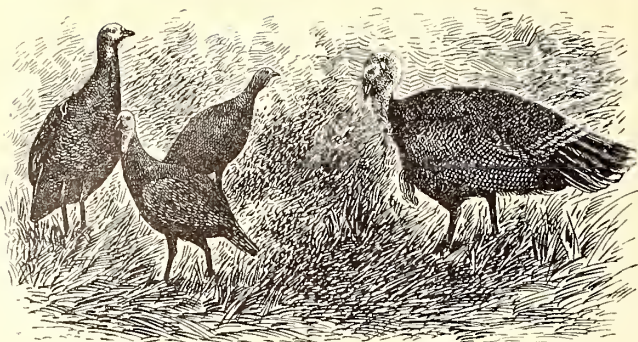
keys it is a very easy matter to find their nests by keeping in a secluded spot and watching the hen. Do not let the female see you, for sometimes she will not go to her nest for hours.

In many of the Eastern States where a few years ago they raised hundreds of tons of turkeys, they now have to import them to meet the demand, as it seems almost impossible to raise them. One of the main causes for this decline in the raising of turkeys is, I think without a doubt, in-breeding. Farmers, as a rule, do not like to invest a few dollars for a male bird,

and they usually go to Tom Jones or one of their neighbors and borrow a tom, and this thing has been done for so many years in the past that the vitality of the turkey has about run out, and by doing this it has gotten so low that it created disease, and I really think that many of the turkey diseases with which we have to contend at present have been caused by lowering the



HEAD OF TURKEY.



A HAPPY FAMILY.

vitality of the turkey, as I believe there is no other variety of birds in which the vital forces decrease so rapidly by in-breeding as the turkey. I think it is quite possible, under proper management, to raise turkeys in every State in the Union, and I believe that if the farmers in general will be more careful about not in-breeding and will spend a few dollars in order to get a good male bird, and thus introduce new and hardy blood into their stock, they will be able to raise turkeys. I would advise people who have plenty of range for their birds to buy a half-wild gobbler. It is almost impossible to get a pure wild gobbler in this country unless you happen to run across one by accident. About all the people who claim to have wild turkeys have nothing more than half-breeds; but with these you get enough wild blood to make the offspring very much stronger, and this will be very noticeable the first season.

After the hen turkey commences laying, probably in some sections of the country it will be very cold at night, almost to the freezing point, and, therefore, under such conditions, the eggs should be gathered every evening and marked with date of getting; then they should be placed in a pan filled with bran with the little end of the egg down, and then the whole placed in a cellar or any cool place, and for two or three days afterward they should be turned every day. It would be safe to keep them ten or twelve days, but would not advise keeping them after that time, as perhaps not so many of them would hatch. When these eggs are taken out of the nest a glass egg should be placed in the nest in order to keep the turkey there, otherwise when she comes back to lay and finding no eggs in the nest, as a rule she will desert the nest and look up another one and lay elsewhere. You will find that a good mother will cover her eggs all up with grass, so that in looking for the nest it is necessary to be very careful, as otherwise you may step into it. An ordinary turkey hen will cover eighteen eggs. If she lays any more than that number, I take the extra ones and put them under a common hen, setting this hen and the turkey at the same time. If you are afraid your eggs are going to be too old, put the oldest of them under the common hen. She may hatch out a week ahead of the turkey, but as soon as the turkey hen hatches out her eggs, give all of the poults to her. Be sure there are no lice or vermin on the hen when she hatches. It is also well, when you transfer the poults from the common hen to the turkey mother, to dust them well with insect powder of some kind. It takes twenty-nine days to hatch turkey eggs. After the twenty-nine days are up, if the turkey does not leave her nest, do not disturb her, because many times she stays on the nest twenty-four hours after the young poults are hatched. The main reason for this is to give the poults time to gain strength in their legs after hatch-

ing. One of the best ways I know of to overcome this is to take a little stale bread moistened with milk, put it gently near the nest, near enough that the turkey hen may get something to eat, and if the young poults are hungry, she will call them out. If she does not appear inclined to move, do not disturb her. It is a very easy matter to find out whether or not she has hatched any poults, for, as a rule, you will find the broken egg shells scattered near the nest. At the expiration of thirty days if you see no signs of the young turkeys, it is well to investigate the matter by raising the turkey off the nest and ascertaining whether the eggs are unfertile or not. If they should prove to be unfertile, the best way is to shut up the female turkey for four or five days in a coop large enough for her to get a little exercise in, give her food and water and a place to dust herself in. If this happens early in the season, within three or four weeks she will commence to lay again.

One of the best places in which to let the hen turkey run with the poults is a field where the grass is short. As a rule a pasture is very good—woodland is very suitable. Keep them out of meadows and grain fields until after the grain and hay are harvested, because the wet vegetation is very bad for the young poults, as it chills and sets them back in their growth.

You will always find the finest and strongest turkeys where they are given free range, as much range as possible. As a rule they will not wander far from home. Under proper management you can place turkeys anywhere on the farm you wish, and by teaching them to roost in one particular place, they will come to regard this as their home and will know no other, and you will always find them wherever they have been taught to roost. This can be done by watching them at night for a few times in succession and driving them to the place where you want them to stay, and just before dark they will go up in the trees or on a roost that has been put up.

With the right kind of breeding stock, turkeys at Thanksgiving time should weigh about as follows: Toms, sixteen to twenty pounds; hens, ten to fourteen pounds.

There are two things which have to be done in order to have good success in breeding. One of them is that you have to get the right kind of breeding stock, and the other is to feed them properly. Those are the



IN THEIR GLORY.

two main things and the only requirements.

The proper way to feed breeding stock is to be very careful and not over-fatten them. Of course all turkeys are fed principally on corn before Thanksgiving and Christmas, as many of them are dressed for table purposes at that time. As soon as the breeding stock has been selected, they should be fed on entirely different lines. The principal food from that time up until the hen commences to lay should be oats. The best way to feed oats is to scald them, but if a person does not care to do this, they can be fed on just ordinary oats with the hulls on. During the very coldest weather in January and February I perhaps would feed them a little corn at night, but never any in the morning, and at nighttime feed them no more of it than they will eat up cleanly within five or ten minutes after giving it to them. Where the turkeys have range around a barnyard, a person must be very careful not to over-fatten them, and, as a rule, it is only necessary to feed them at night, and under such conditions I would feed corn only about three times a week, all other feeds to be oats.

Another food which we think is necessary for turkeys to keep them in good health is ground charcoal, but be sure not to have it ground fine, as turkeys will eat it better when it is very coarse. On a farm they can ordinarily find all the grit that is necessary for them to have, but I think the eggs will hatch better if the turkeys have oyster shells. These also need to be ground coarsely. If the turkey has not enough lime to properly supply the egg the shell will be very porous and many of the germs will die on this account. The oyster shell should be set around in small boxes where the turkeys can get at it handily.

Under no consideration breed from a diseased turkey. A turkey that you know has been sick, or is sick, it is much better to kill than have it running with the breeding stock.

When the gobblers mate with the hens, should they be extra heavy and the females extra light, it is well to see that the male does not tear the female on her back. A very good thing to prevent this is to file down the toenails of the male, as many times they will slip off the wings and rip the female open. Should you ever find a female that has been torn open, for it is very easy to discover it by her actions after being tread, or more especially the next day, as she will be lame and her wings will droop, it is best to catch her at once and examine the wound, as most generally they can be saved by sewing up the same. This is not a very difficult matter to do. One person should hold the turkey and another one do the sewing. Pull the feathers away from the edges of the wound, and with some warm water moisten them so that they will stay back while you are putting in the stitches. The wound should be washed out thoroughly with Witch Hazel, or should you have none, with warm water. Do this with a soft sponge. Then take a long, fine needle with silk thread, draw the edges of the skin around the wound together over it so that the parts meet as they should be. Now commence at one end of the wound, gradually draw the edges of the skin together over the wound as you stitch until the aperture is all closed up. Many times I have taken as many as fifty stitches in one wound. Bathe the wound every two or three days with Witch Hazel. It is well to keep this particular hen in a pen by herself for two or three days. The period of confinement depends entirely on the size and nature of the wound, but as a rule after two or three days she can be liberated with the rest of the flock.

POCKET-MONEY POULTRY.

Plans of Poultry Houses—The Necessities of Poultry Houses—System of Ventilation—Scratching Sheds—Scientific Feeding.

Feeding For Eggs.

BY MYRA V. NORYS.

THOSE who argue for ventilation assert that fresh air—air that is *really* fresh—is the most urgent need of the fowl kind; and they are right, though they may not know that the reason for this is that fowls breathe a great deal more air during a given period than do human beings. And, indeed, their opponents do not disagree with them as to the necessity of fresh air, but as to how much from outside is necessary to constitute it fresh enough. A physician standing high in his profession, and holding State offices in addition, told me that it was not floor space the fowls needed, as is the common idea, so much as breathing space and fresh air. He stated that he had kept 600 fowls through an entire Winter, in a building having scarcely more than floor space enough to give them standing room, and in perfect health, simply by using a thorough and perfect system of ventilation. The principle is, to admit plenty of air at a point near the bottom of the house, and give it egress above; but in such a way that there shall be no draught, but constant diffusion and motion of the confined air. It is partly because the subject of ventilation is such a difficult one, that the scratching-shed has been such a help to poultry raisers; for here they are certain of fresh air, at least half the time.

Not long ago, an addition to the poultry literature of the day described what was supposed to be a

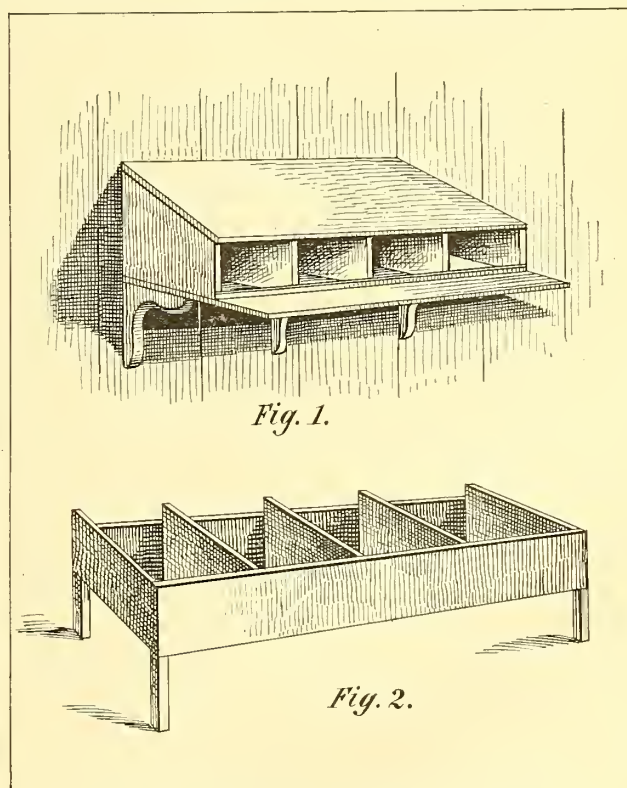
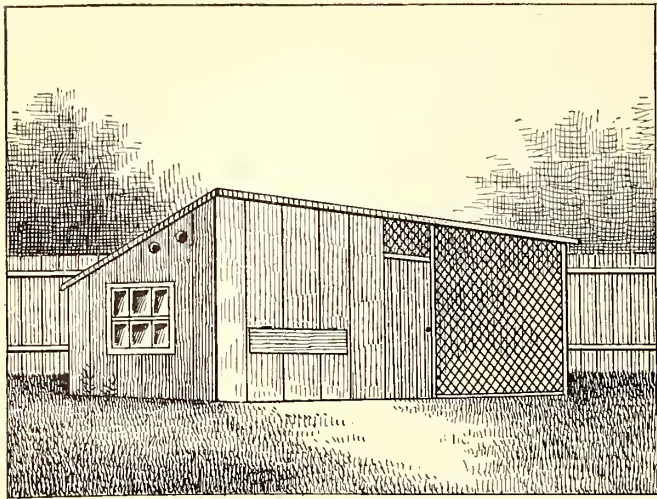


FIG. 1.—NESTS. FIG. 2.—ROOSTING LADDER.



THE POULTRY-HOUSE ONE WOMAN FINDS GOOD, WITH SCRATCHING-SHED ATTACHED.

"woman's poultry-house." The idea underlying it was, that a woman's long skirts unfitted her to enter a building where there was necessarily more or less filth. and the building described was to be made so that she should not need to enter it. It was small enough to be cleaned from the outside through a drop door, the floor being raised, not to necessitate too much back-breaking work. Possibly this might do for very small work with a very few fowls; but the poultry mistress who did not enter the houses could hardly have sufficient grasp of her business to insure success. It is absolutely necessary to have acquaintance with one's fowls, and to know what is going on among them.

Perhaps the best way to adapt a poultry-house to a woman's needs is to make certain of absolute simplicity and convenience in its inside fittings. The necessities are roosts and their platforms, nest-boxes, drinking-vessels and feed-troughs, grit and shell containers, and dust-baths. Whatever is on the floor soon comes to be a nuisance, for it is disturbed and fouled by the birds, besides being in the way. Nest-boxes are better at a little height than if placed upon the floor. A feed trough, which the fowls can not overturn, or roost upon, or make foul in any other way, may consist of a single board, with a furring of lath about the edge. This may be hinged to the side of the building, about eight inches from the floor. Eight inches above it may be stapled a wire frame, a little wider than the board, and made like one leaf of a wire gridiron without the handle. When the hens are feeding, the board is at right angles to the wall, the wire frame dropped at an angle over it. After the fowls have finished, both trough and frame are raised and hooked to the wall. Such a trough needs very little cleaning, for the average hen does this part of the work very well! A somewhat similar frame and shelf against the wall may hold the drinking-vessels; though it is a matter of economy of time, where there is a series of houses, to manage so that one large vessel serves for two pens. These wall shelves, as described, may need a little support below, which may be furnished by attached legs, or by a small box under them, if this does not disturb the owner.

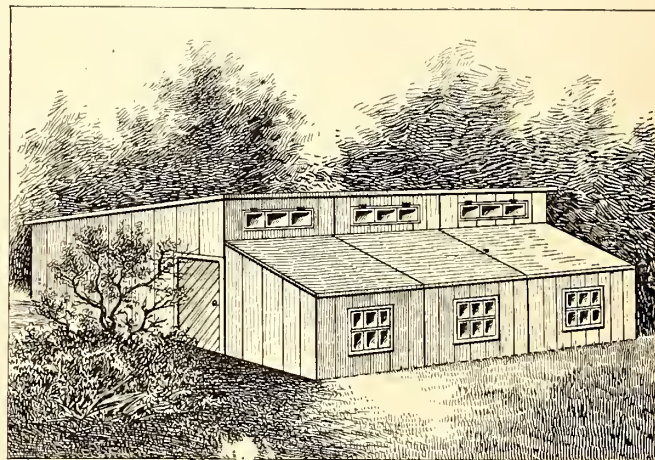
A modified ladder is the best form of roost with which I am familiar. I do not mean the old style of ladder roost, one portion of which is higher than the other, but something like a ladder laid horizontally. On this the hens can roost compactly, yet without crowding, especially if the "rounds", which are flat,

are a little wider than the sides of the ladder, rising above the sides, and seeming to divide them into spaces. If the roosting platform, when in position, is set so that it is slightly sloping toward the front, it is far more easily cleaned. Both the roosting frame and its platform may be arranged so as to be put up out of the way during the day. With this last arrangement, however, the roosting platforms do not serve as a hiding place for the nest-boxes; but an advantage is gained in having these boxes farther from the lice, so liable to infest a roost. A series of boxes may be placed on a level against the side of the house, with sufficient space to allow the hens to enter at the back. A single drop-door at the front gives the care-taker easy access to all the eggs.

The dust-bath box is the one thing that occupies the floor, and in the sunniest spot. It should be moderately large and deep, so that the hens can really wallow in it; and tobacco, or some disinfectant may be mixed with the dust to make it more effective. With these fittings, it takes but little time to care for the houses, a large proportion of the vexations of poultry keeping are avoided, cleanliness is insured, and all the work made comparatively easy.

A style of house which I know to be giving good results in one woman's hands embodies the favorite, modern scratching-shed idea. The figures show several views of it. The roosting-room is smaller than the scratching-shed, and the door serves to close the shed during the day, while, by swinging inward, it closes the roosting-room at night. At night, also, a curtain drops in front of the roosts, and another protects the shed from incoming storm. The large ventilator at the front is placed above the height of the fowls' heads when they are on the floor, and is covered, on the inside, by a drop-board twice as wide as and eighteen inches longer than the opening. Opened and hooked at any angle except a right angle, this board deflects all air more or less strongly toward the roof, whence it diffuses. The roosting-room has a board floor.

A modified form of the scratching-shed idea is shown in another figure. The peaked-roof structure stands gable end to the sun, which end is partly boarded, partly covered with netting. This end forms the "shed" which is partitioned off from the rear of the house, the latter being the roosting-room. A door between stands wide during the day, to be closed at the owner's option at night. The house is floored throughout, loosely ceiled overhead, and filled in with straw, which those who use say keeps the house both dry and warm. It does good work.

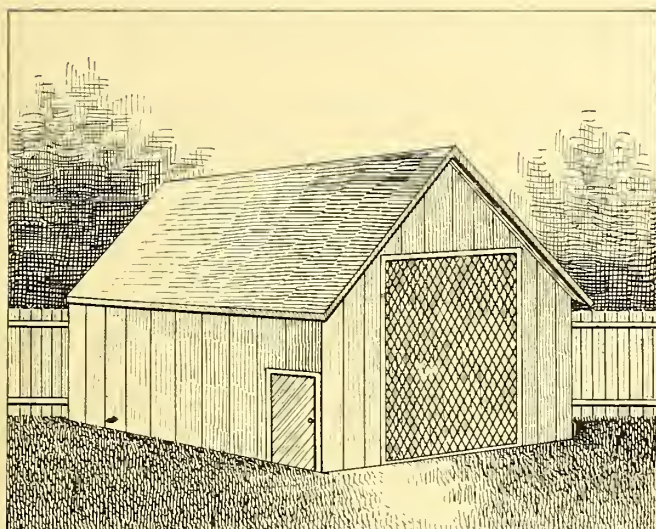


A HOUSE WHICH GIVES GOOD RESULTS.

FEEDING FOR EGGS.

That anybody can feed a hen, may be true; but that anybody can feed her so as to make her produce a maximum number of eggs at a minimum expense, is far from being true. To do this needs study and common sense. These, combined, will ensure what is known as scientific feeding, that is, common sense feeding for best results. In order to be led to do a thing properly, it is necessary for most minds to know why it is to be done as directed.

In turning over the pages of the agricultural papers, in search of the corner known as the Woman's Department, your eye has been caught by such expressions as "Wide ration", "Narrow ration", "Feeding formula", "Percentage of waste matter", etc., and you have thought them very dry stuff. Politics and percentage are utterly at variance with woman's mind, say the men; but the woman who is to raise poultry at a profit must learn to make percentage a part of her daily life. The percentage of loss or of profit, the percentage of cheap food to dear food in the rations, the percentage of fat to lean, which her birds lay on at different periods, the percentage of hustling layers to lazy dead-



A MODIFIED SCRATCHING-SHED HOUSE.

heads in her flock, will be matters of vital importance to her; matters which will determine whether her purse is to bulge out with fatness, or to be as flat as though a whole freight train had run over it.

As a bit of encouragement, let me say at once that the woman in the poultry business has an inherent advantage when it comes to the question of feeding. To provide food for somebody, or something, is her natural business. A business, too, in which she has practiced all her life. If she has studied the matter of feeding her family for best results (as no woman can be excused for not doing) the matter of wide and narrow rations need be but as a b c to her. That which makes it easy from the first, is the fact that the feeding ration for eggs is very nearly the same in proportion as the food which she must set before her family for best nutritive results. Wheat is the one grain that is nearly perfect, and it contains the muscle makers, phosphates, etc., in about one-fourth the quantity of its fat formers. The term "Wide ration", as commonly used, has reference merely to the proportion of muscle makers and fat formers in any ration under consideration. If there is eight times as much fat-forming material as of muscle-making material, the ration is wide. If there is four times as much of the

fat formers as of the muscle makers, the ration is narrow. The division line must, of course, come somewhere between, and any smaller proportion than that of one to six may, perhaps, come under the term "Narrow ration."

The proportions of these two important elements in whole corn runs somewhere about one to seven. Hens are more fond of whole corn, as a rule, than of any other available food. Why then shall we not feed them very largely of this and save ourselves the brain wearing, and the work necessary to formulate and feed scientific rations?

Because we must never forget that the hen is to be a money maker for us. We shall require of her three things. Perhaps it will be fair to say that she will require of us three things; that we furnish her food enough for life, that is to say, simply for running around; also food for growth, up to maturity; also food for egg making, as soon as she is sufficiently matured. If we do not provide food for eggs, that is, egg-producing food, the hen will not, can not return us eggs for the food which we have given her. A mere running-around ration may be wide; and corn, which produces the fat which running around uses up, may answer the requirements very well.

Food for growth requires to be rich in muscle makers. And as eggs are also rich in these same elements, which are technically known as proteins or proteids, food for growth and food for eggs will need to be reasonably alike. Let us fix firmly in our minds the fact that the only source of proteins, (muscle-makers—egg-makers) in the body, or its products, is proteins in the food. Then we shall not commit the blunder of expecting the hen to return to us that for which she has never received the material.

It is worth infinitely more to a woman—leaving the men out of the question—to learn for herself the principles of formulating rations than merely to press into use rations given by others, no matter how good these may be. One strong reason for this lies in the fact that a large percentage of the profit will depend upon using the foods easily available which are cheapest, that is, which are lowest in price, in proportion to the amount of protein they contain. This is the real test of cheapness in an egg-producing food. If you happen to live on the sea shore, where certain kinds of fresh clams, or fish, can be had by the bushel for nothing, your greatest expense for food is at once nullified, and every cent of this is to be added to your profit, because in any case you must feed to sustain life.

The proportion of proteins to fat producers is not, however, the sole thing to be considered. Cheapness has been referred to, and we must consider, also, palatability and digestibility. For instance, beans are very unpalatable to hens; hence, although they are nearly one-fourth muscle makers, they are available only in degree, because the hens will not eat them, except under compulsion, or through stratagem. The beans must either be cooked, or else ground and used in such quantity that more pleasing food will cover their flavor; and thus, they may be made a part of the ration. It is fortunate that we do not need to use, or are prohibited from using a very large quantity of a food so concentrated as beans.

Our chief sources of protein, easy available, are wheat and its products, oats, fish, beans and peas, milk and curd, and the various beef scraps and animal meals, besides clover hay and grasses. Of these, clover, oats, and wheat, contain less than the others. It is because curd is about one-fifth protein, that it forms so good a food for domestic poultry.

(To be continued.)

THE SCIENCE AND PRACTICE OF POULTRY FEEDING.—V.

BY DR. D. E. SALMON.

The following table showing the chemical composition of a large number of substances used by the poultry feeder, is compiled from the latest reports of the U. S. Department of Agriculture and of the various State experiment stations. Wherever possible the average of a number of analyses is given in preference to a single analysis. Samples of the same substance taken from different sources vary more or less, and, consequently, in the absence of an analysis of a sample taken from the feeding substance actually being fed, the composition of this substance can be only approximately estimated. For practical purposes, however, in compounding rations and in calculating the proper proportion of the various ingredients, these analyses are of inestimable value, and must be used more or less by every one who expects to feed intelligently, and economically.

COMPOSITION OF THE PRINCIPAL FEEDING STUFFS USED IN
THE POULTRY INDUSTRY.

		IN FRESH OR AIR-DRY MATERIALS.					
		Water.	Ash.	Protein.	Fiber.	Carbohydrates (Nitrogen- free extract).	Fat Ether extract.
GREEN FEED, HAY, ETC.	per cent.	per cent.	per cent.	per cent.	per cent.	per cent.	
Pasture grass.....	80.0	2.0	3.5	4.0	9.7	0.8	
Kentucky blue grass..	65.1	2.8	4.1	9.1	17.6	1.3	
Red top.....	64.8	2.3	3.3	9.4	19.0	1.2	
Timothy.....	69.2	2.3	3.4	8.3	15.7	1.1	
Rape.....	86.0	2.6	2.0	2.5	6.4	0.5	
Green rye.....	76.6	1.8	2.6	11.6	6.8	0.6	
Green oats.....	62.2	2.5	3.4	11.2	19.3	1.4	
Corn fodder.....	79.3	1.2	1.8	5.0	12.2	0.5	
Red clover.....	72.0	2.4	5.0	6.5	13.3	0.8	
Alfalfa.....	71.8	2.7	4.8	7.4	12.3	1.0	
Ground clover.....	9.5	7.4	13.7	27.8	39.7	1.9	
Red clover hay.....	21.2	6.1	10.7	24.5	33.6	3.9	
Lettuce.....	95.1	1.0	1.2	0.4	2.0	0.3	
Onion tops.....	91.0	1.4	1.8	1.3	4.1	0.4	
Beet tops.....	88.0	2.8	2.4	1.0	5.2	0.6	
Cabbage.....	90.5	1.4	2.4	1.5	3.8	0.4	
Apples.....	80.8	0.4	0.7	1.2	16.5	0.4	
ROOTS, TUBERS, ETC.							
Potatoes.....	78.9	1.0	2.1	0.6	17.3	0.1	
Sweet potatoes.....	71.1	1.0	1.5	1.3	24.7	0.4	
Red beets.....	88.5	1.0	1.5	0.9	8.0	0.1	
Sugar beets.....	86.5	0.9	1.8	0.9	9.8	0.1	
Mangel-wurzels.....	90.9	1.1	1.4	0.9	5.5	0.2	
Turnips.....	90.5	0.8	1.1	1.2	6.2	0.2	
Ruta-bagas.....	88.6	1.2	1.2	1.3	7.5	0.2	
Carrots.....	88.6	1.0	1.1	1.3	7.6	0.4	
Onions.....	87.6	0.6	1.4	0.7	9.4	0.3	
CONCENTRATED FEED.							
Corn, dent.....	10.6	1.5	10.3	2.2	70.4	5.0	
Corn, flint.....	11.3	1.4	10.5	1.7	70.1	5.0	
Corn, sweet.....	8.8	1.9	11.6	2.8	66.8	8.1	
Corn, meal.....	15.0	1.4	9.2	1.9	68.7	3.8	
Corn, cob.....	10.7	1.4	2.4	30.1	54.9	0.5	
Corn and cob meal...	15.1	1.5	8.5	6.6	64.8	3.5	
Corn bran.....	9.0	1.3	9.0	12.7	62.2	5.8	
Corn germ.....	10.7	4.0	9.8	4.1	64.0	7.4	
Hominy chops.....	11.1	2.5	9.8	3.8	64.5	8.3	
Germ meal.....	8.1	1.3	11.1	9.9	62.5	7.1	
Dried starch and sugar feed.....	10.9	0.9	19.7	4.7	54.8	9.0	
Maize feed, Chicago..	9.1	0.9	22.8	7.6	52.7	6.9	
Grano-gluten.....	5.8	2.8	31.1	12.0	33.4	14.9	
Oat feed..... 7.7 3.7 16.0 6.1 59.4 7.1							
Oat dust..... 6.5 6.8 13.5 18.2 50.2 4.8							
Oat hulls..... 7.3 6.7 3.3 29.7 52.0 1.0							
Rice..... 12.4 0.4 7.4 0.2 79.2 0.4							
Rice meal..... 10.2 8.1 12.0 5.4 51.2 13.1							
Buckwheat..... 12.6 2.0 10.0 8.7 64.5 2.2							
Buckwheat flour..... 14.6 1.0 6.9 0.3 75.8 1.4							
Buckwheat hulls..... 13.2 2.2 4.6 43.5 35.4 1.1							
Buckwheat bran..... 10.5 3.0 12.4 31.9 38.8 3.3							
Buckwheat shorts.... 11.1 5.1 27.1 8.3 40.8 7.6							
Buckwheat middlings. 13.2 4.8 28.9 4.1 41.9 7.1							
Sorghum seed..... 12.8 2.1 9.1 2.6 69.8 3.6							
Broom corn seed..... 11.5 3.4 10.2 7.1 64.8 3.0							
Kaffir-corn seed..... 9.3 1.5 9.9 1.4 74.9 3.0							
Millet seed..... 14.0 3.3 11.8 9.5 57.4 4.0							
Flax seed..... 9.2 4.3 22.6 7.1 23.2 33.6							
Flax seed, ground.... 8.1 4.7 21.6 7.3 27.9 30.4							
Linseed meal, old pro- cess..... 9.2 5.7 32.9 8.9 35.4 7.9							
Linseed meal, new process..... 10.1 5.8 33.2 9.5 38.4 3.0							
Sunflower seed..... 8.6 2.6 16.3 29.9 21.4 21.2							
Sunflower-seed cake.. 10.8 6.7 32.8 13.5 27.1 9.1							
Cotton seed meal.... 8.2 7.2 42.3 5.6 23.6 13.1							
Peanut meal..... 10.7 4.9 47.6 5.1 23.7 8.0							
Pea meal..... 10.5 2.6 20.2 14.4 51.1 1.2							
Wheat bread..... 32.3 0.9 8.8 56.3 1.7							
Crackers, oyster..... 4.0 2.5 11.0 77.5 5.0							
Crackers, butter..... 5.3 1.0 9.2 70.9 13.6							
Crackers, soda..... 6.2 2.1 9.7 72.7 9.3							
Crackers, oatmeal.... 4.9 1.4 10.4 69.6 13.7							
ANIMAL PRODUCTS.							
Fresh blood..... 80.0 0.7 19.1 0.2							
Dried blood..... 8.5 4.7 84.3 2.5							
Meat scrap..... 10.7 4.1 71.2 0.3 13.7							
Meat scrap, different origin..... 5.4 2.4 58.4 33.8							
Dried fish..... 10.8 29.2 48.4 11.6							
Animal meal..... 5.1 28.6 40.0 10.1 16.2							
Cut bone..... 29.7 24.0 20.2 26.1							
Lean beef, round.... 68.2 1.2 20.5 10.1							
Beef heart..... 56.5 1.0 16.3 26.2							
Boiled blood and bone 7.4 52.9 29.3 8.3 2.1							
Cows' milk..... 87.2 0.7 3.6 4.8 3.7							
Cows' milk, colostrum 74.6 1.6 17.5 2.7 3.6							
Skim milk, gravity... 90.4 0.7 3.3 4.7 0.9							
Skim milk, centri- fugal..... 90.6 0.7 3.1 5.3 0.3							
Buttermilk..... 90.2 0.7 4.0 4.0 1.1							
Whey..... 93.8 0.4 0.6 5.1 0.1							
Hens' eggs, excluding shell..... 73.7 0.8 15.0 10.5							
Hens' eggs, hard boiled..... 74.5 1.0 13.7 10.8							

THE DIGESTIBILITY OF FEEDING STUFFS.

In the above table no effort has been made to give the digestible constituents of the feeding stuffs. Even with man and the larger domestic animals, this subject has not been very thoroughly investigated and with birds it is practically an unexplored field. The experiments with cattle, sheep, and pigs indicate that with green feed from fifty to eighty per cent each of the protein, crude fiber, carbohydrates, and fat is digested. With hay from forty to seventy per cent of each of these constituents was digested; with concentrated feed from sixty to ninety-five per cent; with roots and tubers from sixty to ninety-five per cent; with meat scrap, flesh meal, and dried blood from ninety to ninety-eight per cent; with milk from ninety-five to one hundred per cent. These figures are only approximate. They differ widely with different samples of the same kind of feed and when fed to different animals of the same species.

The digestive organs of birds are very active and efficient in the performance of their functions, as has already been explained. It is likely, therefore, that a larger percentage of the nutritive constituents is digested with birds than with the animals upon which digestion experiments have been made. Any attempt at present to specify the digestibility of poultry food in percentages would, however, be conjectural and useless as a guide to the feeder. In these articles we shall, consequently, calculate the composition of rations from the table of average analyses, and will endeavor in future articles to supply any omissions which may have inadvertently occurred.

Management of Poultry.

Operations should commence early in the spring with the cleaning of the house and yard after the winter use, to adapt them for warm-weather purposes. Begin by cleaning every nook and corner and brushing all dust away. Clear the floor of litter, and replace with clean material; empty all the nests and see that no filth is left to breed vermin; remove all nest-boxes and roost-poles from the house and cleanse them with kerosene; whitewash the nest-boxes inside and outside. After the house has been cleared apply a liberal coat of whitewash, containing a small amount of crude carbolic acid, to every portion of the building; and slush it into the cracks and crevices, thus killing all the vermin that may be concealed in them. Replace the roost-poles and nest-boxes and use fresh material for the nests. Sprinkle the nests with Persian insect powder. Dust the fowls thoroughly with the powder to keep down the lice as far as possible, and be liberal in its use, that no regret may be found in the future when the warm weather comes.

When the weather is cold every crack is closed to prevent draughts. But when the weather is warm more ventilation is necessary and the houses should be regulated accordingly. There must be an abundant supply of fresh air in the house. If the fowls have been confined it is necessary that the yards also be cleaned. Spade them up and mix with the soil fresh gravel, sand, and lime. If the birds are on a range, it will be well to clean around the house door and feeding places, and haul the scrapings off to the garden or orchard. Provide ample shade for the birds during the summer days, as they need it for protection against the hot rays of the sun. Mate up the pens of breeding birds as early as possible and be ready to hatch when the weather is favorable. Place the best birds in the

pens, and breed from those only that are known to be in perfect health. Vigorous adult birds give chicks that develop into fine birds for the next season's layers.

When fowls are allowed free range in warm weather, it is not essential to feed them more than once a day, as they gather food which nature supplies and is all that is needed for their food during this period. But when fowls are kept confined a study of their feeding is of as much importance in summer as in winter.

When the weather is cold it requires more food to sustain life than it does during the heated term. Avoid all fat-forming food during this period and keep them in a thrifty, vigorous state by feeding such foods as are not heating. Feed liberally of the bran mash in the morning, and use wheat and oats as grain foods during the day. Cooked vegetables and cut grass may be used during this period, as they are bulky and not stimulating. Milk, buttermilk, and clabber are good drinks and the fowls relish them.

At no season of the year should more attention be paid to the drinking water than in summer. The vessels should be rinsed in the morning and filled with fresh water. Place the vessels in a location where the sun can not reach them, and, when possible, change the water several times each day. Occasionally put in the water a few drops of carbolic acid as a safeguard against disease, and during the molting period a small amount of tincture of iron should be used as a tonic.

With the advent of cold weather the fowls have developed into maturity, and the biting frosts have deprived the birds of insect or animal food. This is the season when the poultryman reaps the benefit of his labors; it is at this time when the income is to be had from the summer work. All conditions are now changed; the treatment of the flock is in a measure the reverse of that during the warm weather. The foundation of the winter's success is based on proper housing of the birds. The houses should be made warm and perfectly dry, with sufficient light. It is best if they be so arranged that the sun will shine into the building the greater part of the day. If the house be large and there be plenty of room for the accommodation of the flock kept, there is no need of ventilation. Do not over-crowd the flock, as poor results are sure to follow. See that no cracks or crevices are in the sides of the house to admit cold draughts on the birds while on the roosts. Dampness is to be avoided by having a tight roof and a board floor. The supply of eggs during the winter months depends largely upon the temperature of the house, and the method of feeding. The water supply should be ample, and the morning drink should be warmed to about sixty degrees. When the fowls come off the roosts on a cold morning they are cramped and chilly and something warm is needed for them before going into the cold. If they drink warm water it has a tendency to assist the circulation of the blood. Remember that the bird must be kept in active exercise during the winter to be healthy and profitable. A lazy bird soon becomes diseased; it is a worthless adjunct to the yard. To prevent laziness cause them to work for their living by scratching in the litter on the floor for their grain. This will keep them in good health.

A Specialty.

Mr. J. M. Porter, Morristown, N. J., is a breeder of Single Comb Brown Leghorns, Barred Plymouth Rocks, Silver Laced Wyandottes and Light Brahmas, making a specialty of the latter variety. His stock is good and our readers should write him for prices.

The Feather, Washington, D. C.

Published the 15th of each Month by
GEORGE E. HOWARD & CO.

Subscription 50 cents a Year in Advance.
Foreign Subscriptions, 75c a year in Advance.
Single Copies 5 cents.

GEORGE E. HOWARD, Editor.

All matter intended for publication should reach us by the first of the month preceding the issue in which the same is to appear.

Write your name in full, giving full post office address plainly, so there will be no mistakes.

When writing for publication use only one side of paper. Brevity is the soul of wit.

Advertising in The Feather.

The Feather now offers the best and cheapest advertising in the country. Its circulation has increased more than one hundred per cent. during the last year. Its advertising rates are lower than those of any other journal of equal standing and circulation.

The Feather reaches the people that transact the poultry and pigeon business of the country. Its publishers have made a special effort to include among its readers all the most successful and most enterprising fanciers. Advertisers are often astonished by the large amount of business which comes to them after running their card a few months. There is no other medium which reaches so large a proportion of readers in all sections of the country who are able and willing to buy when they learn who are offering the stock or supplies which they need.

Net Advertising Rates.

Space	1 mo.	3 mos.	6 mos.	1 year.
1 inch	1 50	4 00	7 50	12 50
2 "	2 80	7 50	13 80	23 50
3 "	4 00	10 70	19 80	34 00
4 "	5 00	13 50	25 00	43 00
5 "	6 00	16 20	30 00	51 00
6 "	7 00	18 80	35 00	59 00
7 "	8 00	21 40	40 00	67 00
8 "	9 00	24 30	45 00	76 00
1/2 col.	10 40	27 40	51 00	85 00
1 page	14 00	38 00	70 00	120 00
2 cols.	18 00	48 75	90 00	154 00
1 age	25 00	68 00	125 00	220 00

Bills of five dollars or less are payable in advance.

All other bills are payable quarterly after the first insertion for the quarter.

Five per cent. discount will be allowed on bills of over five dollars which are paid in advance.

No advertisement will be inserted at any price from persons who are not responsible or who fail to deal honestly with their patrons. We particularly request our readers to notify us of any advertisers whom they believe to be dishonest or fraudulent. Honest advertisers will be protected—dishonest ones will be denounced.

New advertisements must be received not later than the 1st of the month. Copy for change of advertisement must be received not later than the 25th of the month preceding.

Remittances should be made by postal money order, registered letter, bank draft, or express money order.

All remittances should be made payable to

GEORGE E. HOWARD & CO.,
504 11th Street, Northwest,
Washington, D. C.

Entered at the Post Office at Washington, D. C. as second-class matter.

DECEMBER, 1898.

ADVERTISERS must have copy in for change of advertisement not later than the 25th of the month preceding. Copy for new ads must be received by the 1st of the month to insure insertion.

Suppressing Nuisances. The poultry and pigeon fanciers of the National Capital are a much oppressed people. Two years ago the timid and nervously disposed portion of the city's population induced our lawmakers to suppress the "crowing roosters" and "cackling hens." The crusade began and before many months the pets of our friends were suppressed and their voices heard no more. Every complaint was listened to with the

greatest complacency by our over-zealous Commissioners, and the "roosters" had to go. Some neighbors are good and don't complain, others are not so good and do complain, and it matters not how small the complaint may be, the "rooster" has to go. Many fanciers carry their pet male bird into the house each night, shut him up in the cellar, then put him in the yard after ten in the morning. All sorts of schemes are resorted to by fanciers to retain their birds, but now comes a new step to wipe out the "roosters" entirely. One of our dailies puts it thus:

The early birds who announce the dawn from many a hen-coop within the city limits have been the subject of considerable annoyance to more than one worthy citizen, and as the result of many complaints received from virtuous citizens who love to spend the small hours of the day in balmy sleep, Maj. Sylvester yesterday recommended to the Commissioners that a tax be imposed on every rooster in the District, or at least in the city portion of it. A letter of some length was received from Attorney T. Percy Myers, stating that the present regulations do not offer proper relief against the nuisance. Commissioner Wight, in passing upon Maj. Sylvester's suggestion, has recommended that the matter be referred to the District Attorney.

This scheme is entirely new and opportune. Things generally are being taxed, but it is rather amusing to have the "stamp act" applied to birds, "roosters" who disturb the quiet and peace of our timid and nervous population. The Commissioners do all sorts of absurd things, and this is one of them. A few months ago they tried to suppress pigeons, but found it a hopeless task. They appear ridiculous in their ambitions, and latterly we are not surprised at whatever they try to do. We think the suggestions of our correspondent in another column, are very nicely put together, and will give our Commissioners something to think about. There are real, genuine nuisances running rampant that should engage their attention, but these are like the "cops," never around when the fight is going on.

* * *

We begin this month a series of illustrations, to be used as supplements, and will continue them each month during the coming year. Such illustrations will be welcomed by our readers, giving them the most representative birds of the most popular varieties. These pictures will do well for framing, or may be kept in an album. The Barred Plymouth Rock cockerel shown this month is not intended as an ideal representation of this variety, but rather as a true characteristic type of the Barred Plymouth Rock family. A more difficult task, according to our way of thinking can not be imagined, than to attempt the delineation of ideal specimens, so we will be content with first-class portraits of famous winning birds. The Barred Rock cockerel used this month was drawn from a photo taken of one of the MESSRS. BRADLEY BROS.' birds, and has very few "touches" to make the picture as we see it.

* * *

We were compelled to add eight additional pages to this month's FEATHER, to accommodate the large amount of new ads which appear therein. Many regular advertisers have enlarged their spaces and are offering new and rare bargains to our readers. This evidence of confidence in THE FEATHER should convince those breeders who are not ad-

vertisers in our columns that they should be, and that it will be money in their pockets if they advertise in THE FEATHER. The January number will be a grand special edition and will contain many new and attractive articles. This number will have a beautiful supplement and the edition will be completely and profusely illustrated. This will be our grand show edition and will be distributed at the four leading shows of America—Washington, New York, Chicago, and Boston. Copy for new ads must reach us not later than January first, and copy for change of ad must reach us not later than the twenty-fifth of this month.

It Is A Great Book.

Last month we published numerous paragraphs, clippings from our contemporaries, complimentary of The American Fancier's Poultry Book. This book has had a phenomenal sale, and the second edition is going rapidly, so rapidly indeed, that a third edition will be necessary before the season is over. Every one who is interested in poultry, for profit or pleasure, should have a copy of the book. It should be in the home of every lover of poultry. Below we give a few more comments taken from the editorial columns of our contemporaries, which we think should be conclusive evidence of the merits of the book. No other book on poultry raising has received the praise this book has:

THE NORTHWESTERN HORSEMAN AND STOCKMAN:

The American Fancier's Poultry Book is the most complete book that we have ever seen treating on the poultry industry, and it is just the kind of book for the beginner, containing so much for so little money. It is a large octavo volume treating on everything pertaining to practical and successful poultry keeping. The book is worth double the price asked for it. There is no other book published that contains one-half the information it does, that can be had for twice its cost. It is printed on highly calendered paper and substantially bound in an artistic cover, making it a volume that would grace any library.

WESTERN POULTRY FANCIER:

The American Fancier's Poultry Book, of which the second enlarged, revised, and greatly improved edition has just been received, is undoubtedly the cheapest as well as the best book published on poultry raising. It treats each subject thoroughly and any one interested in poultry can not be without a copy of this book. It is without doubt the best book published upon the subject.

TEXAS STOCK AND FARM JOURNAL:

The American Fancier's Poultry Book is an ideal one of its kind and is an encyclopaedia of useful information pertaining to the poultry industry. It reviews the poultry industry in this country, treats thoroughly of general management, the eggs, incubation, all about feeding, house building, keeping eggs, caponizing, diseases of poultry, and gives in detail the points of merit and advantages of all known breeds. Mr. Howard, the author, is an eminent authority on poultry matters, and has amply sustained his reputation in the compilation of this work. The book is profusely illustrated and contains 170 pages.

THE FANCIER'S STAR:

This is a practical book, intended for the expert as well as the beginner. It covers the field thoroughly. It treats of every topic pertaining to poultry and should be in the hands of all interested in the industry, whether for profit or pleasure.

THE FANCIER'S PRESS:

It gives us pleasure to announce the issuing from the press of The American Fancier's Poultry Book, second edition by George E. Howard & Co., the well-known publishers of THE FEATHER, Washington, D. C. Not only does the book contain a mine of information about common and uncommon varieties of fowls, but it is gotten up in the best style and of the art preservative and the cuts used are of the best and arranged in such a way as to add a great deal to the appearance of the book. We consider the book cheap at the price at which it is offered, namely, 50 cents.

FANCIER'S MAGAZINE:

The American Fancier's Poultry Book is undoubtedly the best poultry book now on the market at a popular price. Mr. Howard is an excellent writer, and the work throughout shows that he understands his subject. Besides instructive chapters on varieties of land and waterfowl, there is a large amount of information on diseases, feeding, caponizing, artificial incubation, house building, preservation of eggs, etc. There are over 150 illustrations, which are all very good, but which we think might have been more effective if they had been arranged less promiscuously, chickens, ducks, pheasants, coops, etc., being mixed up most bewilderingly throughout the book. Typographically it is excellent, and headings, initials, etc., are most artistic, as they are generally found to be in Howard publications.

POULTRY CULTURE:

We have received from the enterprising publishers, George E. Howard & Co., Washington, D. C., a most useful volume for those interested in the poultry industry, whether from a fancier's standpoint or for market purposes, called the American Fancier's Poultry Book, by George E. Howard. It contains condensed information on general management, incubation, feeding for eggs, house building, keeping eggs, caponizing, etc., and gives some valuable recipes for feeding and for combating the diseases common to the poultry-yard. One also finds well-written articles on such subjects as "The Poultry Industry," "The Breeds," "The Egg," "The Chick," etc. In fact, something of interest is to be found on every page, and it is well embellished with illustrations.

Taxable Roosters.

Editor The Feather:

Please let me know if you are in favor of this proposed tax on city roosters. Will it not be the death blow to backyard poultry raising?

The following points will, I trust, be carefully considered by the honorable District Attorney, and the new regulation made so clear as to fully answer all such questions.

1. When does a chicken legally become a rooster? As soon as the sex can be determined, when he first crows, or when he first roosts?

2. Shall this tax apply to roosters

kept for "breeding purposes," only?

3. Are not hens roosters, at night?

4. Do roosters that are being fattened for market have to pay tax? and will all live roosters on sale in city markets be taxed?

5. Will this law cause all roosters to be killed on reaching the crowing age?

6. Will roosters sent to the poultry show have to be taxed?

7. Don't you think there will be a demand for thoroughbred roosters? Citizens will not pay a tax on scrubs. Hurrah! a boom for the standard-bred poultry.

8. How about the "crocusses" that bloom in the spring, tra la!?

9. Will the tax collector supply tags to be fastened to the roosters' legs?

10. Will each taxed rooster be required to furnish his hens with revenue stamps to put on eggs, so they can lawfully be used for hatching purposes?

11. What will be the status of a capon?

By all means let the new regulation only apply within the city. There are many real farms still in the District. Soon we shall expect to see advertisements as follows, in the local papers:

LOST.

A pure-bred Black Langshan rooster, tax tag No. 41,144, on left leg. Crows in a profundo basso disgusto voice. Answers to the name of "Crusoe," when accompanied by a handful of corn. Strayed from my woodshed between the hours of midnight and 4 a. m. Liberal reward if returned in working order, to X. Y. Z., Star Office.

I feel sure that consideration and solving of the above questions will keep the honorable District Attorney awake many a night, without the aid of the cock's shrill clarion. For my part I think we should welcome this tax. Who knows now we are to have dogs and roosters taxed, perhaps our City Government in its spirit of progression and solicitation for our citizens' comfort, may be induced to tax cats; and that which we have stayed awake many a

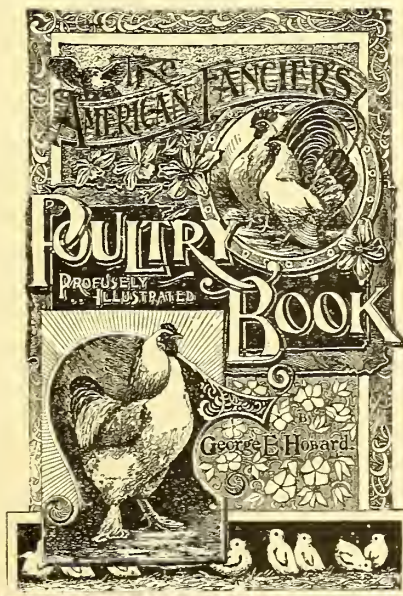


J. W. MacDonald.

Makes a specialty of Prize-Winning Barred Plymouth Rocks and Black Minorcas.

First pen, third pullet at Hartford show. Stock and eggs for sale. Write for prices.

14 Franklin St.,
Rockville, Conn.



night and prayed for will be accomplished. However, let there be no mistake, "Thomas" cats and "Marias," must be taxed alike.

Take notice, poultry fanciers! and find out the decision as to when a rooster is a taxable rooster.—W. H. R.

Eggs in Winter.

BY WM. H. RHEES.

"Poultry raising is on a boom.
At the top there's always room;
The best of stock will profit pay."
Said a young man at the store to-day.

"I never heard such awful bosh,"
Cried old slow poke, farmer Josh:
"I scarcely get an egg to eat,"
Spoken in derision long-haired Pete.

"And as for feeding dollar wheat,
Or grinding bones for hens to eat,
'Tis good enough to write with pen,
For city folks," said Uncle Ben.

"My hens roost in the wagon shed,
And with the pigs are always fed;
Get no eggs in winter, bet yer sox!"
Said a cross-eyed man on the cracker box.

"You won't believe if ever told,
The amount of eggs I've lately sold;
The fowls I keep are thoroughbred,"
That first young man now faintly said.

"You old folks think that I'm a jay.
To work so hard to make hens lay;
How my trade has grown in size,
I know it pays to advertise."

"You say I get these fancy capers,
From reading in those chicken papers;
If better ways will make it pay,
Why don't you try it? is all I say."

Then spoke the clerk of that country store,
"Just let me add a few words more
Of talk best fitted for heads so dense;
Eggs, cash, this week at forty cents."

FOR SALE
AT A SACRIFICE!

Fourteen Beautiful White Fantail Pigeons, from the best stock in America. These birds are fit to win in strong competition, and for breeders it would be hard to find a better or cheaper lot of birds. I will sell the fourteen birds for \$30 cash for the lot. Must be sold immediately. Address,

Chas. J. Schofield,

Care The Feather, 504 11th St. N. W.,
Washington, D. C.

The Latest.
The Best. . . .

A practical book for the expert as well as the beginner. 166 Pages, 250 Illustrations. Nothing like it has ever been published.

The American....
Fancier's Poultry Book.

By George E. Howard, profusely illustrated by the author. The entire field of poultry raising is covered by this book. Each chapter complete in itself. None can afford to be without it. Price 50 cents.

...Our Liberal Offer...

The Feather, one year, price, - - .50
Farm-Poultry, one year, price, - - 1.00
American Fancier's Book, price, - - .50

Total, - - - - - \$2.00

Ali for \$1.00 if ordered at once.

GEORGE E. HOWARD & CO.,

504 11th Street N. W., Washington, D. C.

Practical Poultry Raising

FOR THE
EXPERT.....
AND BEGINNER.....

A Handy Contrivance.

Editor The Feather:

It has been a long time since I have had the pleasure of contributing to the columns of your beautiful and excellent journal. Sadness, deep and lasting, is within our home, and while our loneliness has not lessened, still we feel that it has become a part of our very selves and we go about our daily vocations wondering why our darling nine-year-old Maud should be taken from our home.

I send you at this time sketches of our case for grit, shell, granulated bone, and granulated charcoal. We have found it very desirable in every way. The room it occupies is so slight that it is not noticeable, even in a very small pen, as it is hung upon the side wall by means of two nails, driven into the wall the proper distance apart to coincide with the holes in the back of the case, (shown in Figs. 1 and 2,) and high enough to leave the bottom of case about twelve inches from the floor of the pen. The top, like the other parts, has been worked out experimentally and is just about right. At first we had the top slant entirely across, with hinges at the extreme back so the fowls could not roost upon it; but we found that when we had occasion to replenish the case, the lid would not stay up, but had to be fastened or held, and for this reason we changed to the style shown in the sketches and this works to perfection, as the level part is so very narrow that the fowls can not find secure footing upon it, and the lid will stay open when needed, without holding. The trough in the bottom is accessible to the fowls, and at the same time they can not scratch the contents out nor dirt and litter in. When cleaning-house time comes the case and its contents can very readily be lifted off from the nails and carried out.

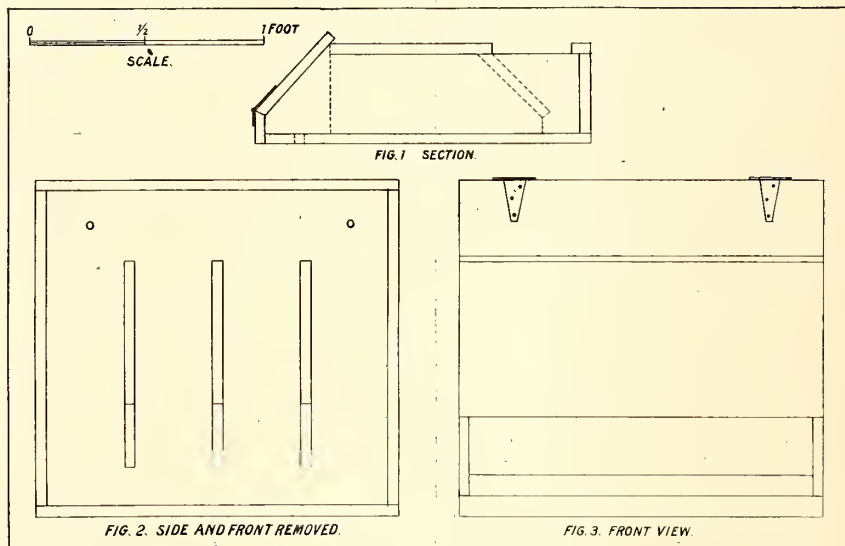
The case is designed to be made of lumber about one-half inch in thickness and need not be planned. Any person at all handy with saw, square, and hammer can construct them for their own use, but when parties want them and can not make them nor get them made readily, I can supply a limited number at a trifle above actual cost. This may appear like "a free ad," but I am not soliciting trade in this line but will furnish these cases when requested to do so. My reason for making this offer is this, I have numerous and repeated calls for coops, brooders, etc., such as I have sketched for the columns of THE FEATHER and could not supply them, and have concluded that it is unfair to show patrons of "our paper," desirable appliances and then do nothing to aid them in securing the same, and hereafter I shall endeavor (so far as is in my power to do so) to aid any who will request me to do so.

Several months ago THE FEATHER published designs for houses for very

large flocks, and as the writer has had large experience, he prepared drawings for houses to accommodate a very large number of large flocks or pens of fowls, and it was so arranged that the labor of attending them was reduced to the minimum and the fowls could be well cared for in the least possible time, but these drawings would hardly be reasonable at this time. I have many things (in my line) in store for the patrons of our paper, but am at a loss to know just what to furnish that I may do the "greatest good to the greatest number," and to this end suggest that our readers send us requests for such helps as they need. Please do not hesitate to make known your wants.

F. A. RAPPELVE,

Farmer, N. Y.



What are Poultry Breeders Coming To?

Editor The Feather:

This subject is one that has long been argued and talked on by heads more learned than the writer's, no doubt, yet as a thorough breeder and budding judge I wish to express my opinion.

Judges of an earlier date, I want to ask you, are we, as a fraternity, following up the principles which we live to make known? Can not we, who strive to make the poultry field a success, yet learn a few points which would aid those who shall come after?

It is a sad sight, no doubt, for many a judge to see his name "scratched" in the poultry journals for his conduct in judging, but if we would all try and learn the art of judging by constant study, then our brothers would have no cause to "scratch" us. I have seen birds scored by some of our ablest judges who pretend to know their business, and yet the same bird varied from 94½ points to disqualification in two

different show-rooms of a week apart. Now is this the way to keep up an interest in the business?

No! and the man who thinks he understands it all and who never listens to even one word from the "kicker" but goes stamping around the show-rooms treading on every one's feet, better quit the business and go to studying the Standard. We can never give new breeders any encouragement by so doing.

I say give every new breeder all the encouragement possible. We do not know who are and who are not new breeders when we are in the show-room, and, therefore, if we are not careful and thorough in every act, we had better keep out of the show-room entirely. Perhaps many of the most promising young men of the poultry world will be or have been discouraged just by the judging of some man who, as I say, stepped on their feet and made no care whether he did his duty or not so long as he got his pay.

Therefore, I say, brothers be careful. If you tread upon the property of others in the show-room, ask their pardon and show yourself to be a friend to all. And to the young poultry breeders I say, if a judge misuses you, shun him forevermore if he does not atone for it. But only as a judge and not as a man. Thus can we all, and thus only, bring about

a state of affairs that shall find the thoroughbred in every town and on every farm. Thus can we encourage the poor men in the cities to spread into the country and take up the unoccupied and deserted farms now standing idle and only a burden to the land holders. Here can the poor children be educated to the love of this noble work, for lack of which many a poor ruffian turns out.

Breeders, be not discouraged, but rather work and be not afraid, even if all the world seems at first to be against you. Persistent work and honesty will some day win for you honors which shall mark your name on the pages of a history never to be despised in the sight of God and man.

L. L. DOOLITTLE,
Bernardston, Mass.

Utility is Wanted.

Editor The Feather:

I am glad to note Mr. Silberstein's methods as set forth in your September

copy sent me. Utility is what we want, and not all show birds, as many of the breeders seem to think. My Black Langshans have run up the egg product to 175 per hen, Black Minorcas to 179. I cull out and have pretty birds as well as others, but in offering stock or eggs I brag on egg record, not feather. J. D. G., Sea Side, Fla.

Hatching Twins.

There are many strange things which happen, but this is as strange as any. Out of a Plymouth Rock egg, six and one-half inches in circumference, two and three-quarter inches in diameter, our neighbor, Mrs. Ros Nagel, hatched a pair of twin chickens, each as perfect as any ordinary one.

The egg broke on one end and you could see one little head while on the other end you could hear the other little one pick. A wrap separated one from the other.

It was very warm all the time the hen was sitting and the chickens all came out three days before time; and as a consequence they were not as strong as they might have been, although they lived to be two weeks old.

JOSEPH PREVOST,
Mt. Clemens, Mich.

The Boston Show.

The entire building, of which only one-half was formerly used, will be thrown open for the accommodation of the next Boston Show, enabling the management to coop the whole exhibit upon the main floor, thus removing the necessity of sending any of the display to either the basement or gallery. This will be quite an improvement and must prove of great benefit to all.

The classification will embrace all breeds and varieties contained in the Standard, and also special classes for some not so recognized. The pigeon department will be as complete as ever, and special attention will be given to the cat, pet stock, and cage bird display. Boston always has the full attention of what are known as "Pet Stock Breeders." Here they gather in all their glory and spend a jolly week.

The dressed poultry and egg department, at Boston, far excels any other ever held in this country. The convenience of a cold-storage room in the building makes it possible to keep all displays sent to the exhibition in prime condition during the whole time of the show. One can send any distance feeling assured of good care and attention.

Many additions will be made in all departments in regular and special cash prizes. More money will be offered than ever before, and the personnel of the management is a full guarantee for prompt payment of all awards.

Entries close December 31. Show dates January 17-21 next. Send to Mr. A. R. Sharp, Taunton, Mass., for premium list of the show.

A Morning Ration.

A hot morning ration may be fed during the winter composed as follows: Bran, three pounds, shorts, three pounds, and ground meal two pounds. Clover hay steamed and mixed in liberal quantity, a small quantity of salt and about three handfuls of coarse sand and fine ground oyster shells mixed. The whole to be mixed while boiling. Boiled potatoes and turnips may be substituted for

the clover hay, and as a variety in diet is beneficial, at noon feed oats, and for the evening feed use whole wheat. Vegetables, such as cabbage, carrots and turnips, should be in reach of the fowls always.

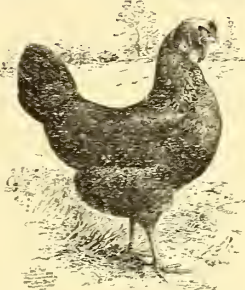
An Eastern Office.

The Geo. H. Lee Co., Omaha, Neb., have established an eastern office at 68 Murray St., New York City, for the sale of their valuable vermin exterminator, "Lee's Lice Killer."

MORE THAN A SCORE OF SHOWS WON

During the past season by customers of

BRIGHT'S BROWN LEGHORNS BARRED P. ROCKS



THESE honors, with those won at America's Greatest Show, Boston, 1898, including six firsts and all the collection and grand specials, is convincing evidence that this stock has no superior. My birds this year show the results of one more year of careful mating and are the best I ever owned. They are strong all-around show birds and breeders. The better you know them the better they will please you.

The Best Breeding
Stock I Ever Had For Sale.
Exhibition Birds for the
December Shows....

GROVE HILL POULTRY YARDS,

A. C. SMITH, Superintendent,

Box 411, Waltham, Mass.

W. E. BRIGHT, Prop.

LONE PINE POULTRY YARDS,

J. T. WALLING, Proprietor,
Placerville, Cal.

Breeder of standard stock. B. P. Rocks. White Minorcas. White and Brown Leghorns. Light Brahmas, and B. C. Bantams. Eggs, \$2 per 15. No Bantam eggs. Stock in season.

If it's quality you are looking for write

THE BROOKLAND POULTRY YARDS,

R. C. BOOTH, Manager.

BROOKLAND, D. C.

Thoroughbred } Single Comb Brown Leghorns. { Exclusively.
Buff Plymouth Rocks.

We are now offering 100 cockerels and pullets of above stock at low prices. All stock sent on approval. MONEY BACK if not satisfactory. Eggs after Jan. 1, 1899. Winners of 6 premiums Rockville, Md., Sept. 2, 1898, and 10 premiums Southern Maryland Fair, Sept. 6-9, 1898.

WHITE WYANDOTTES.



200 COCKERELS,

—AT—

\$2 AND \$3 EACH.

BUY THEM AT

...HEADQUARTERS...

THE HOME OF THE

WHITE WYANDOTTE

...WILLOWCREST POULTRY YARDS...

GOSHEN, N. Y.

Method of Keeping the Pedigree of Each Member of the Flock.

Editor The Feather:

If I ever could have entertained a doubt as to the absolute necessity of knowing the exact pedigree of each individual in a flock of poultry—that is to say, the need of knowing the sire and dam, grandsire and grandam, etc., of each member—the numerous letters of encouragement and of interested inquiry received in my daily mail from practical breeders and men of science, would have long since banished it. But I never entertained any doubts. From the day I “caught the hen fever,” I saw that vastly larger sums were paid per pound of thoroughbred poultry than for any other kind of breeding or exhibition stock, excepting (*perhaps*) the rare sale of a race-horse at fancy figures; and were the sales of poultry that are made at fancy figures heralded as are like sales of race-horses, I firmly believe that my statement would still hold good. Ten to twenty-five dollars per pound of thoroughbred poultry is a far from rare transaction; but how often do we hear of such prices being paid for other thoroughbred stock?

That these prices not only still continue to prevail, but that the number of people who are anxious to buy at such and higher figures (stock worth the money, of course,) far exceeds the number of breeders willing to sell: that the purchaser of poultry continues to receive only what he can see of his purchase—without any knowledge of its ancestry, thus running all the risk of retrograding where he aims to progress; whereas the purchaser of other kind of thoroughbred stock, even at a lower price, receives with his purchase such knowledge of its ancestors as he could have gained had he himself bred the strain: that the poultry industry not only survives, but continues to grow until it will far outstrip—if it has not already outstripped (for the *total* figures are unknown)—in magnitude that of any other industry or enterprise on this continent, speaks volumes for the depth of the “chicken crank’s” love for his feathered pets.

Can one, even in fancy, picture a purchaser of a Jersey, Collie, Berkshire or other breeding stock, paying only a fair price—say one (instead of ten) dollars per pound—without close scrutiny of its ancestry? I think not.

Authorities, I believe, generally accept as a “good mating” such as will reproduce or improve themselves in five per cent of their progeny. By a “mating” is meant one male and several females. Note that all that is known of the chick’s ancestors, in this case, is its sire, its dam being *one* of the females in the pen—which one is guesswork.

From the experience I have had in pedigree breeding, I know that this ridiculously low percentage of success—yes, that’s the word—unless “this tremendously high percentage of atavism” should sound better when read—is due solely to haphazard breeding, and will be improved at least tenfold by breeding from known dams and sires—by knowing the ancestors of each individual in the pen; in other words, by breeding from *pedigree* and personal merit, and not from personal merit alone. That carefully kept records must be maintained is, of course, understood.

The fact is that but one female in five, in the usual run of matings, proves through her progeny that her mating was a success, by equaling or improv-

ing on herself (or her mate) in one-half or more of her chicks; thus we have the “five per cent of success” easily explained. When, by knowing the dam, as well as the sire, of each chick, we can locate our errors in mating, and by study and thought correct them, we will look upon *fifty* per cent of success as only fair.

I have heard of some breeders who are so thoroughly familiar with cause and effect in poultry matters, that they can pick out each hen’s chicks by the latter’s resemblance to their dam. If any reader of these lines feels confident he can do so, I will be glad to have him call at Hartnest for a test, and I am quite certain that he will feel less sure of the accuracy of his knowledge when he gets through with his theory here.

Leaving aside the very important consideration of *real* knowledge gained through pedigree breeding, and consequent advantages, it doesn’t need a prophet to foretell that the day is close at hand when buyers will insist upon having a certificate of pedigree, or other information of similar import, when investing in poultry for breeding or exhibition. Those of us who will read the handwriting on the wall are getting in line; it will be another tale of the survival of the fittest.

Many requests have reached me for a detailed description of my methods in keeping accurate pedigrees. In the hope of saving myself the time and labor requisite to answer each inquirer, and that this article will bring me valuable suggestions of improvement to my present method, I give them herewith.

Let I frighten some faint-hearted one by the seemingly lengthy and apparently laborious detail, from embarking in pedigree breeding, let me first emphatically state that there is *much more* labor in describing my method than there is in its execution.

As eggs are gathered, each is marked in pencil with the number of the hen that laid it, and placed in a box nailed against the partition of each pen. At night these eggs are entered in the egg record, and each egg is marked in ink with the hen’s number and date laid, and placed in an egg rack, where each hen’s product is kept separately.

In setting broody hens, the product of from one to three hens is given to each, and the date set, description of eggs (the number of hen or hens that laid them), quantity of each, is noted on a hatching blank in ink and nailed over

each sitter’s nest. A punch-mark is allotted to the chicks from each hen’s product, and also noted on this blank. Below is a copy of the hatching blank.

Each egg tested out or crushed is noted in its proper place on the blank, so that the latter at all times shows the exact number of eggs under the sitter and description of each.

On or about the night of the nineteenth day of incubation, we take from each sitter all but the product of one hen, trading the rest with eggs that have been set a week or so later. In trading, the eggs taken away are crossed off the blank with pencil, and the eggs substituted are noted thereon, viz: date *originally* set, description, quantity, etc. So, at hatching time, each sitter hatches out but one hen’s product, and that product is described on the blank over her nest.

When dry, the chicks are punched in web of feet in accordance with marks designated on hatching blank; number of chicks hatched from each hen’s product noted in proper place on the blank, ten to fifteen chicks given to a hen, surplus hens reset, and hatching blanks brought to the house, where the latter’s essential points, viz—“Number of sitter,” “Date set,” “Description of eggs,” “Quantity,” “Infertile, etc., tested out,” “Date hatched,” “Number hatched,” “Punch-marks,” and “Location” (described later)—are entered in a book kept for that purpose, called “hatching record,” and the blanks filed away for future reference.

As a sitter is given her complement of chicks and placed with them in a brooder coop, a record is taken of the quantity, description (dams’ numbers) and punch-marks of the babies entrusted to her care, and this record is nailed on each coop. For this we use our “hatching blank,” but for purposes of identification I will here refer to it (when used for chicks) as “chick blank.”

Should one of the wee things be found dead, by reference to its punch-marks the chick is easily identified and the loss quickly noted in its proper place on chick blank.

It is possible (except with the five-toed varieties) to have but sixteen different punch-marks; as each punch-mark is intended to show not only the chick’s dam, but also its date of hatch; as we often set the product of twenty or more hens at one time, which, of course, all hatch on the same day; and as (it fol-

FOWL NO.....

TIMES.....

DATE.	Description.	Quantity.	BROKEN OR CRUSHED.	Clear.	Dead Germs.	HATCHED.	MARKS.

REMARKS :.....

ROUP cured with little trouble

AND AT SMALL EXPENSE.

Read what prominent breeders say.

Wm. Beswick, of Garfield, N. J., sends us the following:—"I find that **Mexican Mustang Liniment** is a positive and quick cure for Roup. I had a Buff Leghorn pullet that had it so bad that both eyes were swelled shut and it cured her in four days so that she is running around now, and to look at her you would think she never was sick. I have used it on others and it cured them. It is the best and quickest remedy I ever used for Roup."

Paul Wendt, of Akron, Ia., writes us as follows:—"I used your **Mexican Mustang Liniment** on two severe cases of Roup, and also frosted comb, and it has given the best satisfaction."

W. B. Williams, of Stella, Neb., writes:—"Not long since I had a hen sick with the Roup. I caught her, plucked a feather from her wing and swabbed her throat well with **Mexican Mustang Liniment** and it cured her and I have not been bothered since. Two friends had some chickens that had the Roup very bad and had tried several remedies but they did no good. I recommended Mexican Mustang Liniment to them and afterwards they both told me that the liniment cured their birds. I expect to keep your liniment on hand as long as I am in the chicken business."

Mr. J. F. Crangle, Sup't of the widely known Fishers Island Farm, N. Y., has this to say:—"We can recommend **Mexican Mustang Liniment** to anyone who is in the poultry business as something which they ought to have on hand at all times. It will do what you claim for it, and in some instances will do more."

W. E. Jolly of Clarkston, Ga., says:—"I have had several fine fowls sick with Roup for which I used **Mexican Mustang Liniment** and it effected a speedy cure—I did not lose a bird."

Mrs. E. D. Bobbitt, of Merritt, Ills., sends us the following letter:—"I wish to tell you that I have used **Mexican Mustang Liniment** during the last Winter with good results. I had quite a number of my Barred Plymouth Rocks attacked with that dreaded disease, Roup, and I doctored them with your liniment and did not lose one of them. With it I also cured Bumblefoot on my first prize cock. Mexican Mustang Liniment does the work thoroughly and quickly when used for poultry diseases, and cannot be given too high praise. I think it is all you claim it to be, and I know that it is to the interest of every poultry raiser to keep this valuable remedy close to his poultry yard at all times."

Write for Booklet, "Poultry Pointers," mailed FREE. Address

Lyon Manufacturing Co.,

Mexican Mustang Liniment is sold at 25c., 50c. and \$1 per bottle.

41, 43 & 45 South Fifth St., BROOKLYN, N. Y.

lows) we are in consequence often compelled to use the same punch-mark on two different lots of chicks hatched the same day, it is of course of vital importance, if pedigrees are to be accurate *beyond question* (and they would be worthless if otherwise), that two such similarly marked lots can under no conditions be mixed up.

To accomplish this with certainty, leaving no chance for "accidents," we divide the chicks into groups. A group consists of the chicks having one set of (sixteen) punch-marks. Each group, with their foster-mother, are yarded separately, and for convenience in describing, these yards are lettered—Yard A, containing Group A; Yard B, Group B, etc.; and location of each lot hatched is noted on the hatching record in column allowed for that purpose.

When chicks are two to four weeks old, they are given their first leg bands and weighed. This is done at night. All the chicks in a group are brought to the house in a box or basket, together with the chick blank from each coop. As each chick is given its numbered leg band, its punch-mark is noted, the number of band recorded in its proper place on the blank, chick placed on the scales and its weight noted over its number. When the group has been banded, the little fellows are restored to their foster-mothers and their numbers, weights, etc., entered in the chick record. This is a book, the pages of which have columns ruled off, bearing the following headings: "Final (leg band) number;" "Date hatched;" "Score;" "Weight" (at maturity); "Dam's number;" "Sex;" followed by six wide columns entitled "First leg band," "Second leg band," etc., etc. These six wide columns are each subdivided into four other columns, called respectively "Number" (of leg band), "Date" (on which chick was banded), "Weight," and "Location."

As the baby bands are nearly outgrown, the operation is practically repeated in giving them their second bands. The chicks in a group are brought to the house, first bands taken off, larger (second) bands put on, number of latter, date of change and weight at changing, noted in its proper place in the chick record.

My aching fingers prompt me to here state that I would rather band or re-

band twenty yards of chicks in one night than to be called upon to write another article of the length of this in a week.

The operations described above are repeated at each change of bands—seven in number from "chickhood" to maturity. The number of these bands can be reduced, but I prefer to use seven, to prevent the possibility of a chick losing a band, which entails some trouble to identify it. My method checks itself and makes errors impossible; yet I dare say it can be vastly improved on, and I am anxious to perfect it.

This chick record has furnished me with a fund of information, by which I hope to profit. It has shown me that some hen's chicks somehow hang behind in maturing, with persistent uniformity; other hens' chicks shoot ahead, beating chicks a month older. Some hens' chicks refuse to live; some have all (or nearly all) cockerels; others, the reverse—all (or nearly all) pullets; others again, about half of both sexes. Some beget excellent pullets and mighty poor cockerels; others again reverse this order. And while this chick record hasn't told me half of its story yet, need I add that I am learning and profiting by the little it has told?

Who wouldn't breed from pedigree combined with individual merit, if he knew the fascination the work (?) carries with it? A. J. SILBERSTEIN, Hartnest Farm, Framingham, Mass.

Shows and Associations.

The American Houdan Club will meet with the National Fancier's Association, Chicago, Ills., January 9-14, 1899. The annual meeting of the club will be held at 10 a. m., January 11, 1899. Frank W. McKenzie, president, Concord, Mich.

The secretary of the National Bantam Association takes pleasure in announcing that as a result of the vote received from the members for a judge of Bantams "Other than Game" to officiate at Madison Square Garden in January, 1899, Mr. F. B. Zimmer of Gloversville, N. Y., has been chosen.

The fourth annual exhibition of the Indiana State Poultry Association will be held in Tomlinson Hall, Indianapolis, Ind., January 23-28, 1899, and not January 9-14, as previously published. This change was made so as not to con-

flict with the Chicago show, which is to be held on the latter dates. Thos. W. Pottage is secretary.

The third annual exhibition of the Kentucky State Poultry Association will be held in Music Hall, Louisville, Ky., January 16-21, 1899. Messrs. H. A. Bridge and W. S. Russell will judge. The following are the officers: Alfred Resch, president; H. W. Heazlitt, vice-president; W. J. Druen, secretary; J. L. Ormsby, treasurer. The handsome premium list is now ready and may be had by applying to the secretary.

Following are the official awards of the Pennsylvania State Poultry Association's Bronze Medals at the 54th Annual Fair of the Agricultural Society of Cumberland Co., held at Carlisle, September 27-30: For best displays in the American, Asiatic, and Mediterranean classes, F. G. Bean, Fairview Village, Pa.; in Polish class, R. F. Myers, Carlisle, Pa.; in French class, J. and W. F. Spahr, Carlisle, Pa.; in English class, L. B. Minich & Son, Carlisle, Pa.; in Game, Game Bantam, and Variety Bantam classes, Chas. T. Cornman, Carlisle, Pa.; in Miscellaneous class, E. F. Miller, Carlisle, Pa. The Association Medals offered by Messrs. L. B. Minich & Son, of Carlisle, Pa., were awarded as follows: Best display Buff Plymouth Rocks, F. G. Bean, Fairview Village, Pa.; Bantams, Chas. T. Cornman, Carlisle, Pa.; Silver Polish hen, J. & W. F. Spahr, Carlisle, Pa.; Indian Game cock, Ira A. Winey, East Salem, Pa. The Association Medals offered by Chas. T. Cornman, Carlisle, Pa., were awarded as follows: Best display Hamburgs, L. B. Minich & Son, Carlisle, Pa. To exhibitor winning largest number of points, Chas. T. Cornman, Carlisle, Pa. To exhibitor winning second largest number of points, F. G. Bean, Fairview Village, Pa.

The next annual exhibition of the Milford Poultry and Pet Stock Association will be held in Town Hall, Milford, N. H., Jan. 10-13, 1899. Liberal special prizes will be given in all classes. A cordial invitation is extended to all progressive breeders of thoroughbred stock to exhibit their birds at this show, all being assured courteous treatment, and awards placed by competent judges. E. B. Burns, secretary.



CONDUCTED BY J. C. LONG, NEW YORK CITY.

Sifting the Flocks.

The breeding season for pigeons being practically over, and the majority of the season's product being now so far advanced as to indicate about what their quality will be when fully matured, the fancier with any idea of economy, looks his young stock over, to see which shall be saved for exhibition purposes, for another year's breeding, for filling such orders from brother fanciers as may desire to add to their collections, and which shall be discarded entirely. This part of his program he will find the most difficult to carry out, especially if his stock generally is of good quality, and of those varieties that develop late. He can see so many possibilities for improvement, that he actually fears to part with them for fear he may be casting aside something, that in the future may, like the ghost in Macbeth, appear to him, and reproach him for his lack of discernment and good judgment. How many a breeder has met with just such an experience, and disposed of young birds as culls and undesirable specimens, to meet them a year after in the show-room and be defeated by them! Therefore, it is necessary to examine all most carefully and not to throw aside any that have any hope of promise.

Such birds as the Carrier, the Barb, the Pouter, the Owl, the Short-faced Tumbler, and others I might name, improve in their particular desirable qualities even after a year old, and it is difficult sometimes when young to fully determine just what the squab will make when mature. It is, therefore, necessary that in picking out, as it were, the dross you do not throw away some of the gold; and many times it would be wise to call in some other experienced fanciers, where the decision is close, for they may see qualities not apparent to the breeder. In varieties where markings alone are the points in question, such as the Swallow, the Nun, the Helmet, and birds of this character, the task is not so difficult, for if foul, it is quickly detected. But as it is almost impossible in these parti-colored birds to breed many that are absolutely clean, there will be some with a few flecks of discoloration that must be saved, for they come near enough to perfection to make desirable breeders, and, even with a little manipulation, desirable exhibition birds. I know this will be considered rather an heretical sort of a doctrine to preach, but where a Nun or a Swallow, for instance, is almost perfect in every respect except one or two dark feathers on the breast or back, and the exhibitor knows that if shown in that condition the judge, if he follows the laws of the Standard, would condemn them, it really seems excusable if the owner gently removes them. I know it is not according to orthodox doctrine to advocate such a course, but

it is one of those instances where we may look with leniency on the one who yields to temptation. There are, without doubt, many birds shown in these classes from which more than one or two feathers have been removed; but the difficulty, as the old Indian said when he stole the axe, is to "prove him."

Having determined on those that shall be retained, the question naturally arises, what shall be done with the rest? Although imperfect, they seem too pretty to kill, and so they are disposed of at cheap rates to would-be fanciers, that take anything in the way of a fancy pigeon if it is cheap, or else sent to the commission merchant, who disposes of them to the first man that will pay his price, and thus they find their way to the shooting clubs, the restaurants, and the various dealers in dead game. If every imperfect bird were decapitated as soon as it was decided they were not desirable to be retained, it would be a good thing for the fancy, and do much to rid the country of much in the line of fancy pigeons that can be truthfully designated as trash. After the young stock has been thoroughly examined and culled it is well to look to the old stock, and weed out from them such pairs as have thrown nothing but foul and imperfect progeny. Either they

should be banished entirely, or else new matings should be made, with an eye to overcoming the defects that have made themselves apparent. Knowing the ancestry of your breeders will enable you to use judgment in this matter, and perhaps, next time make the proper matings for more perfect young birds.—J. C. L.

The Hamilton Show.

The second annual exhibition of the Old Dominion Poultry and Pigeon Association, held at Hamilton, Va., November 2d, 3d, and 4th was a great success, both as an exhibition and financially. The show was run with strictly up-to-date methods, being neatly cooped and fed. Sanitas exclusively was used as a disinfectant. The weather was beautiful which gave the show a large attendance. The large eight-foot aisles were filled with great throngs of visitors from morning until late at night. And their expressions to each other as they met were not only of admiration for the many beauties placed upon exhibition, but also for the boys who had the push and energy to get up a show that stands to-day without a rival in the State.

Barred Plymouth Rocks were the banner class including seven cocks, thirteen hens, twelve cockerels, fifteen pullets, and twelve pens. It was the warmest show of Barred Rocks ever seen in the South; most all the noted Hagerstown winners were in line, Ridgely, Vallie Hawkins, Morford, Warner, Blanton, Cole, Kuhlmann, Hatcher, James, and others. It was a royal battle, as every bird that got a mention had to be a hummer, with many a handsome one left out in the cold. Pens were exceptionally strong in competition.

Next came S. C. B. Leghorns, and they were a hot string—six cocks, eight hens, ten cockerels, twelve pullets, and four pens. W. W. Kulp, R. C. Booth,

ENLARGED AND REVISED

THE SECOND
EDITION OF

MONEY IN SQUABS.

By J. C. LONG and G. H. BRINTON.

PROFUSELY ILLUSTRATED.

It is the Handsomest as well as the most Practical Book Published on the Subject.

It has also been Profusely Illustrated with new and original drawings.

Price 50 cents postpaid.

The Book Contains Chapters on

Breeding Houses, Breeding Stock, Food and Feeding, Water, Salt, Nesting Material, Breeding and Management, Dressing Squabs for Market, and Diseases.

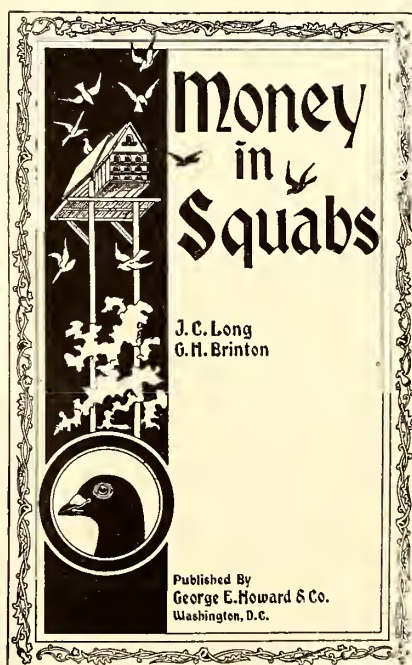
Some of the Illustrations are

Full page drawings of Homers, Runts, Dragons, and Duchesse Pigeons, Plans of Single, Double, and Continuous Houses for Breeding Squabs, arrangement of Avaries to a Garret Room and to a Barn, Plans for Building a House in the Back Yard, Plans of Nests, Perches, Mating Boxes, Bath Tubs, Drinking Fountains, Salt-cat and Grit Boxes, etc., etc. The Book is thoroughly practical, reliable, and of untold value to all who are interested in raising pigeons for profit or pleasure. The book will be sent on receipt of price, 50 cents, or given free to new subscribers to THE FEATHER.

GEORGE E. HOWARD & CO.,

504 11th Street N. W.,

Washington, D. C.



W. H. Barksdale, A. E. Warner, F. G. Bean, R. Thiele, and others. First and second cockerels looked like brothers, and markings were extremely fine. All the winners were of royal merit.

Black Langshans came next—three cocks, seven hens, ten cockerels, ten pullets, and four pens. D. J. Hoge & Son played the dark horse, showing an exceedingly fine string of cockerels and pullets of fine size and type. H. T. Janney captured first pen which was fine.

Black Minorcas were a fine string, C. L. Blanton having it his own way, with few exceptions. Mr. Blanton was second largest exhibitor, and such varieties as he breeds were shown in nice condition. He bids fair to become a hustler in the show-room. He, like Booth and Barksdale, is hale fellow, well met.

Buff Rocks were a nice class. R. C. Booth was the victor, with Thomas a close second.

White Rocks were strong. Weaver, Shoemaker, Hoge & Son, and Kulp, all showing fine birds.

White, Silver, Golden, and Black Wyandottes were fine classes. Jessie Riggs in Whites, and McNealley in Blacks were very noticeable. John L. Cost, showed two pens of his invincible Light Brahmas, which seemed to catch the eye of every visitor. John knows how to raise Brahmas. In size they were compared to Percheron horses.

Rose Comb Brown Leghorns were nice, Kulp a strong leader. Rudolph Thiele was the largest exhibitor with over 250 birds. Mrs. E. Turner of Laurel, Md., showed several varieties and in the pink of condition. The pigeon class was well represented by Messrs. Rabbitt and E. S. Schmid of Washington, D. C.

TOO LATE FOR CLASSIFICATION

BORMAN'S GOLDEN WYANDOTTES win the leading prizes at the leading shows. At Boston, 1898, they won first and second on hen, first and second on pullet, first and fifth on cockerel, and first on breeding yard. I did not enter any cocks. Send for catalogue and other records. Eggs, \$3 per 13; \$5 per 26. FRED. BORMAN, Danbury, Conn.

50 C. PER DOZEN, \$3.50 per hundred, Wyckoff strain. White Leghorn eggs. Circular free. S. J. BISHOP, Cheshire, Conn.

RUNTS for sale, \$2 and \$3 per pair. L. H. BOWLBY, 31 Belvidere Ave., Washington, N. J.

BUFF PLYMOUTH ROCKS. Burdick strain. 25 cockerels \$1 and \$1.75; yearling cock \$2. Western Incubators, no moisture used. Lambert's Death to Lice. Pike's Lice Destroyer. FRED. HAVIG, St. Ausgar, Iowa.

WANTED TO EXCHANGE—9 Pekin drakes hatched from Pollard's duck eggs; 10 White P. Rock pullets, 3 cockerels; 10 B. P. Rock hens and 2 cockerels. For Pekin Ducks, White Wyandottes, or S. C. White Leghorn hens, address, W. P. COTTON, Churchland, Va.

SPRUCE RUN BARRED P. ROCK FARM. A few choice cockerels for sale. Price, \$2. Eggs, \$1 per setting. \$4 per 100. Write for wants. GEORGE REED, Glen Gardner, N. J.



J. D. WILSON,
Box 127 C,
Worcester, N. Y.

Buff Ply. Rocks.

They have won World's renowned reputation. Clean sweep at World's Fair, and have continued to lead in this country and England. N. Y., '95, '96, and '98. Winning the Am. Buff P. Rock Club's Silver Cup for Best Collection at N. Y. '98. Exceptionable bargains now on in breeders.



REV. HENRY M. LADD, Prop.

CRESCENT FARM

Box F, KENT, OHIO, U. S. A.

BUFF COCHINS

Winners at MADISON SQUARE GARDEN, NEW YORK, BUFFALO, CLEVELAND and ELMIRA.

WHITE LEGHORNS

Which won nearly everything Competed for at Buffalo and Cleveland Last season.

WE can furnish some very choice young stock bred from the above winners.

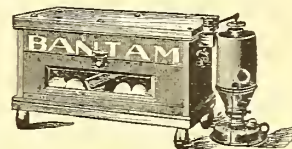
Send for Catalogue.

Address E. T. BLOOD, Mangr.

50
EGG SIZE \$5

ONE MILLION TESTIMONIALS ARE NOT SO CONVINCING
AS THE
30 DAYS TRIAL FREE

We offer on every Incubator we make no matter how cheap. No regulator has ever approached in efficiency our Patent Pneumatic Regulator with which over heating is impossible. You may have chicks hatching every day in the week, with our Compartment Incubator. Among hundreds of others Mrs. M. T. Duvall, Old Church, Va., never before saw an incubator, yet with our Bantam hatched 50 chicks from 50 eggs. You can do as well. Send 4 cents for No. 108 Catalogue.



BUCKEYE INCUBATOR CO., Springfield, Ohio.

1847 Rossmore Poultry Yards. 1898

GEO. C. BUCKNAM, Manager.

"Ex-King" of Light Brahma Breeders,

NOW BREEDER OF

Improved "Full Feathered" Dark Brahmas Exclusively.

We have the Best this year in both Fowls and Chicks, and the Only ones in America as yet, which we can sell at very low prices according to merit.

None can Sell at Lower Prices as they have not the Birds.

No circulars. Write for wants.

Yards, 1071 Main Street, Melrose Highlands, Mass.

...ARE YOU On the Right Track?

You are sure to be if you have

The American Standard of Perfection,

TO GUIDE YOU.

Price, = \$1.00.



It is the Official Book of the American Poultry Association for Raising Poultry to a Standard of Perfection, with Instructions to Judges, General Disqualifications, Cutting for Defects, Detailed Description of all Breeds of Poultry, Turkeys, Ducks, and Geese, and a Glossary of Technical Terms.

We want all of our readers to have a copy of this book, because we want them to breed their birds according to its teachings. For this reason we have decided to make the following liberal inducements:

OFFER NUMBER ONE.

TO EVERY ONE Sending us One Dollar for a copy of the Latest Revised Edition of the Standard of Perfection, we will give One Year's Subscription to The Feather FREE.

OFFER NUMBER TWO.

TO EVERY ONE Who is a subscriber to The Feather, sending us One Dollar for a copy of The Standard, we will extend their subscription to The Feather for one year from date of expiration.

Make all remittances by P. O. Money Order, Registered Letter, or Express Order, payable to

GEORGE E. HOWARD & CO.,

504 11th Street N. W., Washington, D. C.

THE BUSINESS WORLD.

As Viewed From the Columns of The Feather.

PIONEER CLOVER MEAL.

The illustrations published herewith are furnished us by the Bennett & Millett Co., Gouverneur, N. Y., manufacturers of the celebrated Pioneer Clover Meal. The pictures of the clover fields are reproduced direct from photographs. They picture a remarkably good crop of clover, and it affords us a great deal of satisfaction to know that our readers will be able to secure such a quality of clover hay prepared in the form of a meal. We are confident that the use of Pioneer Clover Meal will induce hens to lay in the winter if anything can, as it is extremely rich in the elements of which the egg is composed.



A CLOVER FIELD. PIONEER CLOVER MEAL.

All the clover hay contracted for by the Bennett & Millett Co. was cut and cured after their instructions, and stored in barns, not a bit of stack hay is used. By the careful and painstaking methods employed in the cutting and curing the clover hay the natural green color has been retained in a most remarkable degree. This care and watchfulness in the cutting and curing is of great importance if all the nutriment and sweetness of the young clover is to be retained in the hay; and when preparing it for poultry food too great care can not be exercised in curing and storing it. The Bennett & Millett Co., have spared neither time, work, nor money to secure the very finest quality of clover hay that could be procured. That they have been able to obtain a very fine quality goes without saying, as their factory is situated in a district where thousands of tons of hay are raised and sold annually. Northern New York hay is noted in the markets for its fine quality. Every load of hay is inspected before it is unloaded at the factory and if found to be the least black or brown, as if it had been rained on, overripe, or "mow burned" it is at once rejected; hence only the finest hay is used which insures Pioneer Clover Meal that will be "green as grass." We have noted in THE FEATHER so often the great value of clover hay as a winter egg producer, and believing many of our readers would make a more liberal use of this most valuable food product if they knew how easily it is fed to poultry in the form of Pioneer Clover Meal, we will for their benefit publish a few facts of interest.

In one thousand pounds of clover hay,

or Pioneer Clover Meal, there are over thirty pounds of lime for the shells; in one thousand pounds of wheat there is less than one pound of lime. It is evident, therefore, that if a hen is fed on grain alone soft-shelled eggs will be the inevitable result, as that amount of grain contains shells for a little over five dozen eggs. One hundred pounds Pioneer Clover Meal contains shells for seventeen-and-a-half dozen eggs, sufficient to supply fowls with all the necessary shell materials. Oyster shells and dry bones will not supply shell materials as they are not digestible by fowls; they serve only as a very expensive grit.

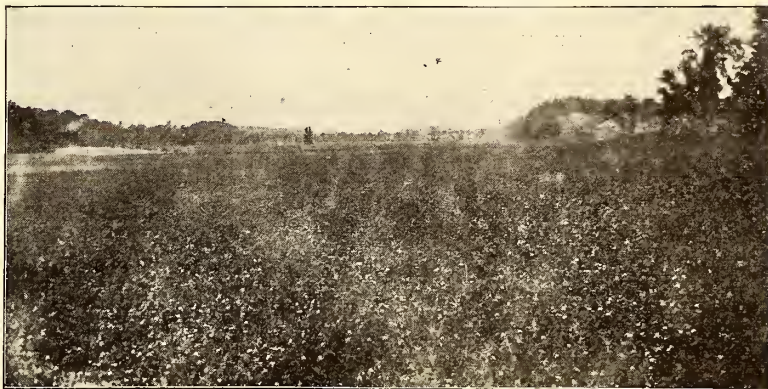
Pioneer Clover Meal is not only an egg maker but it is a great flesh former. One hundred pounds of it contains eleven pounds of flesh-forming materials, and it is almost as rich as wheat, which contains twelve pounds. Thus it promotes the general health of the fowls, maintaining them in the best possible condition to lay fertile eggs in

Clover Meal is healthful because it is bulky, thus acting as a natural diluent to the rich grain foods, making them more digestible and preventing the hens from getting too fat.

It is entirely free from dirt, stems, and trash and can not produce "crop bound" as it is really as fine as middlings. By its production all the obstacles to clover hay feeding are entirely overcome—no waste, long stems, large heads, or "crop bound" fowls.

The factory is a substantial stone building formerly used as a grist and flouring mill. The motive power is furnished by four powerful water wheels, all of which are utilized to operate the machinery; one machine alone requires over fifty-horse power to operate it. Clover hay is an exceedingly hard substance to grind, but with their especially constructed machinery the Bennett & Millett Co. are able to do it properly. Their factory has recently been altered, repaired, and new machinery added to increase the capacity to over 200 bags of Pioneer Clover Meal per day. It is fully equipped with the most perfect machinery and appliances to reduce clover hay to a meal, sack it, and prepare it for shipment.

The Bennett & Millett Co. are new advertisers and we take pleasure in thus introducing them to our readers and endorsing them and their product, which we know is a very valuable food product, that will be of untold benefit to the great poultry-raising industry of the world. The Pioneer Clover Meal is certainly the most practical, economical, and convenient form in which to feed clover to fowls old or young. Send to them for free book and sample, and mention that you saw this article in THE FEATHER.

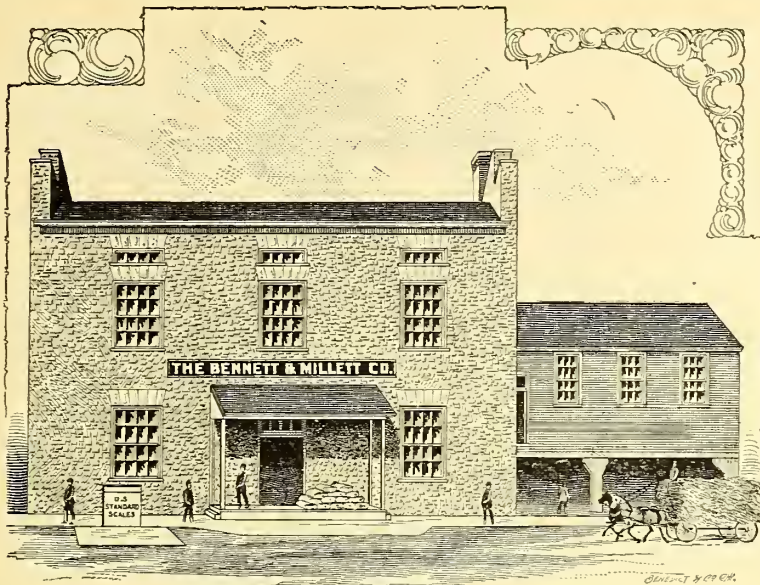


A CLOVER FIELD. PIONEER CLOVER MEAL.

abundance. As a food for young and growing chicks it is unequalled, as it contains all the elements for growth and in a form that is easily and quickly assimilated. A great point in broiler raising is to secure fertile eggs, eggs that abound in all the elements of life and that were produced by hens that were supplied with food containing an abundance of these elements, so no undue strains would enfeeble their systems. The best method of feeding Pioneer Clover Meal is to mix it with ground grains in the following proportions: One-half Pioneer Clover Meal, one-quarter ground oats, and one-quarter corn meal, by measure, not weight, as Clover Meal is very light and bulky. Scald the mixture and feed warm in the morning. The above is an ideal egg ration for the morning mash. Pioneer

BOUND TO GET THE CREAM.

While all Pekin Ducks are good, some are better. This is not only so in the different strains in the country, but also in the individual ducks of each strain. In all breeds there are bound to be culls, and ducks are no exception. A glaring defect even the novice can notice, but to tell the true worth of a bird from its general appearance, requires an expert. Should a novice visit a large duck farm—like, for instance, the one owned and operated by A. J. Hallock, Speonk, L. I., N. Y., and attempt to select his breeders from the thousands in stock on that farm, in nine cases out of ten he would select what Mr. Hallock would term culls. To take an expert along to such a farm to make the selection, would entail a heavy expense.



FACTORY OF THE PIONEER CLOVER MEAL, GOUVERNEUR, N. Y.

So the buying of ducks becomes a problem—but there is a solution on Atlantic Farm. When ready to place a flocks of ducks in the fattening pens, he drives a few at a time into small quarters, and then catching them one at a time he personally looks them carefully over. The least defect condemns them for breeding, and those which come up to the requirements are yarded in separate families, so as to be available when making up his breeding-pens for next year, or to fill an order. It is, therefore, plain that the customer has ducks right from the flocks which Mr. Hallock uses, and he is bound to get the cream.

This privilege is what makes Hallock's ducks so popular. It is this careful selection that is annually producing so many winners at the shows, it is this method of sorting out, that gives the highest type of market ducks.

CERTIFICATE OF SALE.

ORCHARD PARK POULTRY FARM,
DARIEN, N. Y., Oct. 21, 1898.

This is to certify that we have sold to Emory E. Banks, of Crittenden, N. Y., our entire stock and good will of Buff Cochins Bantams.

BICKNELL & WHITING.

Above stock includes five first-prize winners scoring from 92¼ to 94, and many young birds which are much better, so we understand. A few fine ones are for sale cheap.

A SUCCESSFUL EXHIBITOR.

Geo. W. Kinzer, New Holland, Pa., breeder of Buff Leghorns and Cornish Indian Games, has again won many prizes on his fine poultry. At the late Mt. Gretna poultry show his stock won sixty per cent of the prizes in the Indian Game class, and thirty per cent of the prizes in the Buff Leghorn class, 109 birds in competition. Awards were as follows: 3d pen Buff Plymouth Rocks; 1st pen, 4th cock, Buff Leghorns; 1st and 2d pens, 1st cock, 1st, 2d, and 4th hens, 4th pullet, 3d and 4th cockerels, Indian Games; also the handsome silver special for best display of Games in the show. "Prince," the Game cock, a winner of four firsts as cockerel, again won in company with America's best birds, such as "Champion Gladstone III," a 92½-point bird of superior record.

In a recent letter he says: "I have eighteen breeding yards and have disposed of my entire stock of Buff Rocks, so I am better prepared to make things lively in Cornish Indian Game and Buff Leghorn alleys. I have about forty cockerels and 100 pullets of high-grade Buff Leghorns for disposal and will sell them low." See his special ad in another column.

THE "YATES."

C. Yates, Gloversville, N. Y., is the manufacturer of the Yates Incubator, which he advertises on another page of THE FEATHER. He claims these incubators possess all the necessary requirements of a first-class hatcher, and are made with great care by competent workmen, only the best of material, in every detail, being used. Write for his illustrated catalogue and price list.

STRONG IN COLOR.

W. B. German, Millville, Pa., breeder of high-class S. C. B. Leghorns, and White and Buff Plymouth Rocks announces that his Leghorn chicks are

exceptionally strong this year in color, stripe of hackle and saddle, and also are the correct Leghorn shape, have good small combs and pure white ear-lobes. Write him for his prices on this fine stock.

POULTRY SUPPLIES.

I. F. Schott, New Pittsburg, Ohio, dealer in poultry supplies and breeder of prize-winning White Plymouth Rocks, has an ad in our classified columns. Write him for his free illustrated catalogue.

UNIVERSAL HATCHERS AND BROODERS.

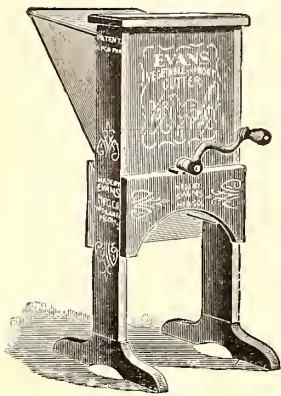
Special mention is due E. W. Andrews & Co., whose hatchers and brooders have won world-wide recognition from breeders and fanciers. They are constructed on scientific principles, from the very best materials, by expert workmen, and are noted for beauty of design, elegance of finish, and durability. They are the only incubators manufactured with a patent moisture regulator, a simple but highly meritorious device. In short, the hatchers and brooders made by E. W. Andrews & Co. are conceded to be among the best, and are steadily growing in favor throughout the United States, Canada, and Europe. The phenomenal success achieved by this firm is to be attributed to, first, the utmost care that is given in selecting and buying none but the best of material; second, the best of workmanship on all branches; third, by the combination and practical use of the most important improvements ever made. In this manner they effect the best obtainable results in artificial incubation. Their factory is on Railroad Avenue near Church St., Elmira, is a two-story structure and equipped with all the latest improved machinery, tools, etc., and lighted by electricity. A visit to this factory and an inspection of the methods used and results attained will satisfy the most critical that the productions of this firm are without a rival. Their facilities are now better than ever before for executing orders for the trade. They are turning out the very best incubators, which they sell at the very lowest prices consistent with the use of the best material and reliable workmanship.



FACTORY OF E. W. ANDREWS & CO., ELMIRA, N. Y.

THE EVANS ROOT AND VEGETABLE CUTTER.

The cut we show herewith gives a very correct illustration of the Evans Root and Vegetable Cutter. It is designed for the purpose of cutting up and pulping all kinds of roots, vegetables, and fruits for easy consumption by poultry. It does not slice or grind



the roots, etc., but chips them into rather long, slender pieces, not unlike large angle worms or grubs, so that the product may be easily eaten by poultry without danger of choking. It affords an easy means of supply-

ing the green and succulent food so much relished by fowls and so essential to success in the winter time. That veteran poultry breeder and editor, Michael K. Boyer, who is using one daily, has the following to say of it: "We haven't an article on the farm we prize more highly (a single exception here) than we do this Evans Root and Vegetable Cutter." Again he says: "There are three machines in our feed room that we simply could not do without, viz., * * * and the Evans Root and Vegetable Cutter." It is a labor saver and a money maker and should be in use on every poultry farm. The machine is well endorsed by the leading editors and breeders of poultry. It is manufactured by the Evans Mfg. Co., of Ypsilanti, Mich., who will take pleasure in sending you circulars, prices, etc. Write them and kindly say that you saw this in our paper.

EXHIBITION BIRDS.

Messrs. Hamme Bros., Smith's Station, Pa., breeders of exhibition Buff, White, and Brown Leghorns, Buff and Barred Plymouth Rocks, and many other varieties of fine poultry, have been very successful this season, winning at Hagerstown, 4th cock and 4th hen on Golden Penciled Hamburgs; at Hanover, Pa., 1st and 2d Single Comb White Leghorn cockerels; 2d Brown Leghorn cockerel; 2d pen Buff Leghorn chicks; 1st pen Buff Plymouth Rocks; 1st pen Light Brahmas, and 1st and 2d pens Golden Penciled Hamburgs. Their ad is in this number. Write them for prices.

POULTRY COMFORT.

It is wonderful what a variety of articles there are in everyday use for what might be called "hen housekeeping." Prepared foods, appetizers, clover preserved from last summer, ground bone, and oyster shells for making egg shells, incubators to do the hatching and brooders to shelter the young chickens, vermin killers, charcoal, leg bands, all have been made for the chickens. It is very well recognized that if the poultryman wants plenty of eggs in winter and good strong healthy chickens in spring, he must make his flocks comfortable. The poultry industry is of vast importance. It is one of the most extensive agricultural pursuits in the United States. No force recog-

nizes this more completely than the great poultry supply house of Johnson & Stokes, at 217 Market St., Philadelphia. It is the largest dealers in poultry supplies in the country, and has a splendid reputation for strict integrity. This firm has recently issued a complete and fully illustrated catalogue of poultry supplies. It also carries a supply of fancy poultry, thoroughbred Scotch Collie dogs, pigs, sheep, and seeds.

GOOD WINNINGS.

On five entries at Coatesville, Pa., John Ridgely of H. Towson, Md., Joseph Phipps, Manager, won on Barred Plymouth Rocks, 1st cock, 2d hen, 2d cockerel, 1st pullet, and 2d pen. They were also winners at Hagerstown. See their ad.

HE IS SATISFIED.

SALISBURY, Oct. 18th, 1898.

MR. R. C. GRINDER,
Rosslyn, Va.

DEAR SIR: Received stock in due time and also in good condition. They were packed splendidly, and I am also satisfied with the pullets, as they are cheap for the price and just the stock I wanted for my purpose. I could recommend you to everybody for reliability.

J. W. MARTIN.

A TESTIMONIAL.

DUNBARTON, ONT., Oct. 19th, '98.

A. J. SILBERSTEIN, Esq.,

DEAR SIR: From eggs bought I had sixteen chicks; hen killed ten, skunk took one, balance five cockerels and my pullet "Nellie." I would not part with her for any money. I could have gotten

ten dollars for her from four different parties. She is not for sale. She has been a winner at all the shows, also the cockerels, two of which I have sold for five dollars each, a third I have offered to sell to-day. Another of the cockerels took third at the Great Industrial, where he was up against birds hatched before February 1st; he was hatched April 8th. At every show since he has taken first prize. He, like "Nellie," is not for sale.

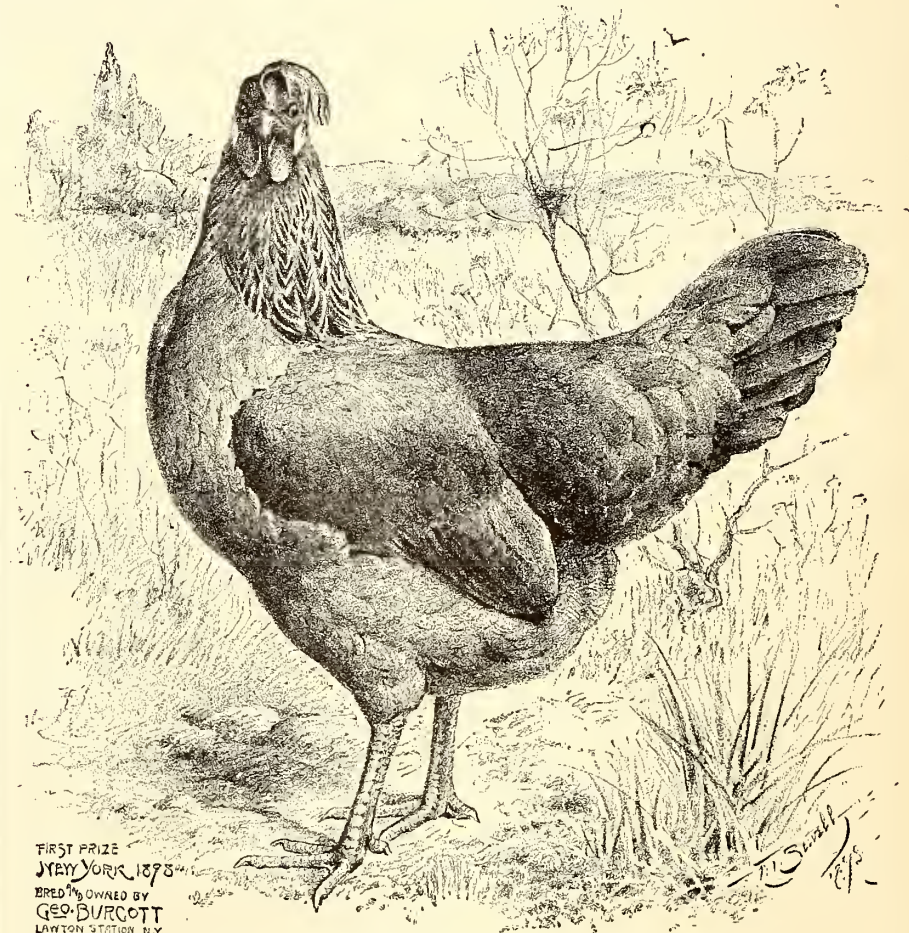
Your stock is all right and you can put me down on your books for more eggs next year. I assure you I'm not kicking. I have pretty well advertised Hartnest Brahmas in this section. Thanking you and wishing you every success, I remain,

Sincerely yours,

(Signed) WILL SECKER.

A Winner.

The illustration of "Nina C." is of George H. Burgott's great winner at the last Boston Show. This is one of the best Single Comb Brown Leghorn females in the country, and was an easy winner in her class. Mr. Burgott is one of the leaders in this variety of fowls, and has established a reputation with his birds that is hard to surpass. In a coming number of THE FEATHER we will tell of some of the things we saw at his place last summer, and also just how he breeds his dainty Browns. If you want winning birds, or breeding birds, you should write him. Notice his ad in this number.



FIRST PRIZE
JANUARY 1895
BRED AND OWNED BY
GEO. H. BURGOTT
LAWTON STATION N.Y.

"NINA C." FIRST-PRIZE BROWN LEGHORN PULLET, NEW YORK, 1898.
Bred and Owned by Geo. H. Burgott, Lawton's Station, N. Y.



ONE OF THE BUFF PLYMOUTH ROCK CLUB'S SPECIALS.

THE BUFF ROCK CLUB.

We show in illustration one of the six silver cups offered by the American Buff Plymouth Rock Club; five of them will be given in the States, and the sixth will be offered at the annual meeting. This club is in a most flourishing condition and is progressive and up to date in all its methods.

AN ENORMOUS BUSINESS.

From all reports Cleveland Poultry Co., Plattsburg, N. Y., are doing an enormous business, especially in clover and shells. It may pay you to read their ad.

WILL CHICKS HATCHED ARTIFICIALLY DEVELOP INTO HIGH-CLASS SHOW BIRDS?

A test made at Elmwood Farm the past season proves that an incubator will hatch as great a per cent of chicks as will be produced by a hen.

Some years ago the writer read in a poultry journal an article from the pen of one of our oldest breeders, in which it was stated that chicks hatched by an incubator could not mature into high-class show specimens of equal quality to those hatched by hens. This statement has always claimed my thought, and for years it has always been my wish to test the facts in the case. The past year the opportunity presented itself for the trial and it is now my pleasure to give to the public the result of the test.

In February last we purchased for Elmwood Farm a "Star" Incubator, in which during the past season we made a number of hatches; in every hatch the machine produced as great a per cent of living chicks, from Buff Cochin, Partridge Cochin, and Cochin Bantam eggs as was produced during the same period from eggs from the same yards, under hens. The chicks hatched by the machine were just as fine looking and grew as well as did those hatched under hens. The down of the Cochin chicks was as long, and in every way fully the equal of any hatched under hens. No moisture was used at any time during

the season within the machine, and the four thermometers in different parts of the machine all registered alike, or as near as possible for any four registers under any conditions to correspond. The chicks were reared side by side and all fed alike, and it is now impossible to detect any difference in the grown fowls, either Cochins or Bantams. Some of the very best specimens we have are those hatched in the machine. Some Cochin pullets that were hatched in March began to lay in September. Two Partridge Cochin Bantam pullets hatched at the same time in the machine began to lay at under six months of age, and we have two broods of chicks from their eggs that are doing nicely. Some of the specimens so hatched have worn blue ribbons at fall fairs, and others have spoken

their quality at the early winter shows.

We have tried other machines but our experience with the "Star" Incubator is by far the most satisfactory in producing fine healthy chicks. Some machines will turn the down upon young Cochins as if singed by the heat. None of the chicks hatched in the "Star" showed any signs of their down being shortened or injured by the machine.

We hope to be able to show some specimens at Boston and New York that will prove beyond all question that fowls hatched in a "Star" Incubator can win in close competition.

T. F. MCGREW, New York City.

GEO. B. RANDOLPH, Weston, N. J.

BEST OFFER TAKES THEM.

Two 600-egg Monarch Incubators in fine condition. Do not need them. A fine chance for someone.

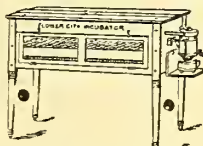
Mt. Vernon Poultry Farm, Reading, Mass.

Light Brahmas.

Must sell at a sacrifice 40 cockerels hatched from Johnstown, N. Y., and Washington, D. C. winners; weigh 11 and 12 lbs. each and are fine birds to win at winter shows, \$2 each. Eggs from winning Buff Leghorns after Feb. 15.

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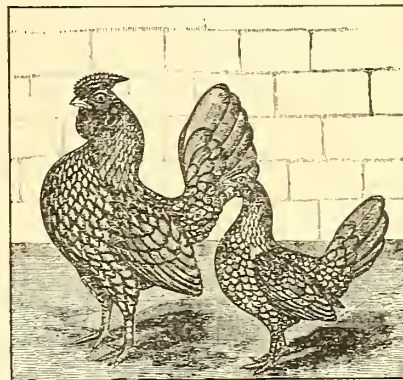
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My flock this year is better than ever before. They are little gems, they sparkle like diamonds.

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My prices are lower than I ever made before, because my flock is so large that I must sell some, so as not to crowd the others.

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You should not delay in writing me. I can sell you breeding birds, and exhibition birds that will win in any company.

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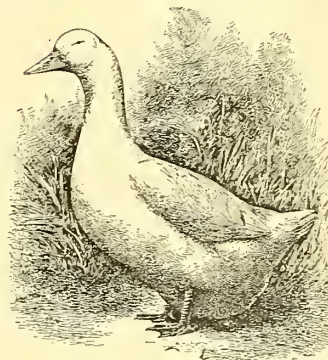
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Are among the first on the market, are sought for by the trade, command the highest prices and give the best of satisfaction in every way. And in the show room it's the same story. The proof is the long string of blue ribbons they've won at New York, Boston, Washington, D. C., and other shows. Breeders are now ready for delivery at reasonable prices. A free booklet gives the particulars. Address,

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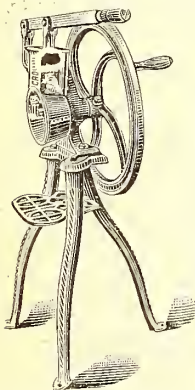
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Want the worth of their money. It is only reasonable that they should, and that is why we make the following offer—we know all poultrymen will get the worth of their money if they take this combination.

The Feather, 1 yr. .50
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Order a can of Lee's Lice Killer...



And hunt up the old paint brush and there the labor ends, as it is a positive pleasure to paint it on the roosts at night and observe the myriads of dead lice and mites lying there next morning.

The fowls appreciate it too, and show their appreciation, not in words, but by bringing a profit to their owner. It is beyond comprehension how anyone can keep fowls and stock for pleasure or profit and yet allow them to remain in a

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Infected with lice and other vermin. During the breeding season especially, one needs strong, healthy birds, and if the old fowls are free from lice, the chicks will require little or no attention for vermin. A little foresight now will save lots of time, labor, and expense later.



If you keep fowls at all, look to a profit. Lousy fowls don't lay

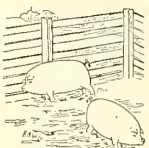
EGGS AT THIRTY CENTS PER DOZEN,

Nor do they bring forth fertile eggs and strong healthy chicks. With LEE'S LICE KILLER, there is no handling of individual fowls or animals, no labor of dusting, dipping, or greasing. The ease of operation makes the work doubly sure, as, to be effective, any insecticide must be used, and if much labor is involved it is very apt to be put off until too late.



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LEE'S LICE KILLER is simply painted on and about the roosts, and exterminates not only all mites and spider lice, but also the lice on the bodies of the fowls by the vapor arising from the painted surface. Many customers have reported finding body lice lying on the boards in piles a half inch thick, in the morning following the first application of our LICE KILLER.



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It is sufficient to paint the rubbing posts occasionally or the floor of their sleeping pen. LEE'S LICE KILLER is the only insecticide which will kill hog lice without handling the hogs. The troughs and swill barrels should be painted or sprinkled with the LICE KILLER occasionally to kill worms and germs of disease. We publish a

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And will mail you a copy free if you are interested enough to ask for it. It contains much of value to the farmer and stock-raiser, remedies for diseases of poultry and stock, etc. The book also contains a list of agents for our preparations in every State in the Union. LEE'S LICE KILLER sells everywhere east of the Rocky Mountains as follows:

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ENTRIES CLOSE Dec 31, 98.
For premium List and Entry Blanks.
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BUFF PLYMOUTH ROCKS ONLY.

When "Old Glory" proudly floats o'er Porto Rico, When Cuba "Queen of the Antilles" rises free, You can easily meet and pay the heavy taxes, By breeding Burdick's "Nuggets" don't you see? My yearly sale now open. One hundred yearling hens; twenty-five yearling cocks; over four hundred youngsters; my prices reasonable; quality governs; birds from \$2 up. I will try to make you all happy. Write letters to H. S. BURDICK, Rome, N. Y.

THE EARLY BIRD CATCHES THE PRIZE.

January, February, and March-hatched chicks for the Fall shows a specialty. Buff, Barred, and White Plymouth Rocks, Brown and White Leghorns, and Black Minorcas; bred from 1st prize winners for years at Mt. Gretna, Washington, and New York. Prices reasonable. Write. J. W. BRUCKART, Lütz, Pa.

WHITE PLYMOUTH ROCKS exclusively.

Bred for exhibition and practical purposes. Hagerstown, Oct. 1898—2 firsts out of 3 entries. Stock and eggs for sale. J. F. DEFANDORF, Garrett Park, Md.

TWO B. P. ROCK COCKS for sale, each a

winner as cockerel last season, one at Charlotte, Lambert, judge; other at Shelby, Marshall, judge. Eggs when you want them. B. S. DAVIS, Asheville, N. C.

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In order to make room for winter we will sell first-class breeding stock, old or young, at greatly reduced rates. Exhibition birds a matter of correspondence. We are especially strong in fine pullets, clear in wing or tail or both. Satisfaction guaranteed. C. G. & P. WILSON, Sag-Harbor, N. Y.

BUFF PLYMOUTH ROCKS ONLY.

"Pure Burdick strain." A few yearling cocks and hens, 100 up to date cockerels and pullets; prices reasonable; quality governs; birds from \$1 up; try me. VERNON K. DAYHOFF, Chewsville, Md. Vice-Pres. American Buff Ply. Rock/Club.

JAS. S. WARNE, Washington, N. J., two fine

pens of yearling Buff P. Rocks for sale, these are my breeders and they are fine. Young birds for sale; some prize winners.

OVERBAUGH'S BARRED PLYMOUTH

Rocks. Won at Mt. Gretna, 1898, 1st and 2d cock, 1st and 4th hen, 3d cockerel, 3d pullet. \$5 gold special, and Pennsylvania State Poultry Association's bronze medal for best display. Hanover, Pa., 1st and 2d pair of fowls, 1st and 2d pair of chicks, and 2 specials. Young stock for sale. W. H. OVERBAUGH, JR., Hanover, Pa.

E. M. VANNESS, 514 13th Street S. E., Wash-

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THEO. REYNOLDS, Danbury, Conn., breeds

Barred and Buff Ply. Rocks as good as the best, as his winnings show. He has a fine lot of stock for sale. Prices low.

WHITE ROCK POULTRY FARM. White

Plymouth Rocks exclusively. "Hawkins" strain. 100 large white birds for sale. My birds win wherever exhibited. None better. JESSE F. WITBECK, Box 48, Burnt Hills, N. Y.

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\$5 each. Your money back if not satisfactory. W. S. HART, Stamford, N. Y.

BARRED PLYMOUTH ROCKS EXCLU-

sively. First-class stock for sale. Large, good shape, and well barred cockerels at \$1.50 to \$2.50 each, pullets same price. If not as represented can be returned at my expense.

WM. R. PAGE, Avon, N. Y.

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CEDAR HILL POULTRY FARM—Write to Cedar Hill Fruit and Poultry Farm for prices on Single Comb Brown Leghorn, Barred P. Rock, Buff Cochlin and Light Brahma fowls and eggs. Some fine surplus cockerels of first-named breeds for sale low. Eggs for incubator use \$5 per 100; good common eggs (large breeds), \$2.50 per 100. R. S. COLE, Harmaus, Md.

FORSYTH STRAIN S. C. BROWN LEG-horns. 12 prizes on 10 entries at Rochester, 1897. Fine young and old stock for sale, cheap, that will score into the 90's. Write wants. FRANK G. RICE, Dansville, N. Y.

PLEASANT VIEW POULTRY YARDS.—R. C. Brown Leghorns. They have won prizes at all the leading shows. Have some fine cockerels and pullets and this season's breeders for sale; birds are strong and healthy and have free range of farm. Prices low. W. G. FRONHEISER, Prop., Pottstown, Pa. Address, J. B. HOFFMAN, Mgr., Sanatoga, Pa.

WAYNE POULTRY YARDS, Coatesville, Chester Co., Pa., J. H. SCHERER, Prop. S. C. B. Leghorns exclusively—Winners at the following shows in 1897: Pottstown, Pa., Scranton, Pa., Mt. Gretna, Pa., Carlisle, Pa., Seneca Falls, N. Y., Sanatoga, Pa. Eggs, \$1 per setting. Stock for sale. Postal for circular.

SINGLE COMBED BROWN LEGHORNS. Ninth season. Single birds, pairs, trios, or pens for sale. Also a few Cornish Indian Game cockerels. HOWARD A. PINNEY, Sheffield, Warren Co., Pa.

MT. GRETNA, 1898. MARBURGER'S BUFF

Leghorns, Barred and Buff P. Rocks, won their share of 1st, 2d, and 3d prizes. Won 1st and 2d on Buff Leghorn pullets in the strongest class we ever saw. My last previous exhibit of Barred Rocks, Mt. Gretna, 1896, won 1st cock and cockerel. This is sufficient proof that I breed the stuff you want. Will ship on approval at right prices. State what you want. A. W. MARBURGER, Denver, Pa.

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SINGLE COMB BROWN LEGHORNS.—A

few fine cockerels from first-class strains at \$1 each. 2 fine cocks for breeding at a bargain. 3 Mottled Ancona cockerels, cheap or exchange. A. S. GORDON, 209 Chestnut St., Towanda, Pa.

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made a clean sweep at Blanchester Fair, August, 1898, took every premium offered on Brown Leghorns in strong competition. Single birds, \$1. Satisfaction guaranteed or your money returned. M. C. BROWN, Morrisville, Ohio.

S. C. B. LEGHORNS. Do you want typical

shape and style? Do you want small combs and pure white ear-lobes? Also rich color? Address, W. B. GERMAN, Specialist, Millville, Pa.

FIVE FIRST PRIZES out of a possible six,

and \$5 gold special, is what my S. C. White Leghorns won at the great Cambridge Fair, 3,700 entries. Drevensdt, judge. Exhibition and breeding stock for sale. Choice cockerels \$2 and up. Catalogue. H. V. BUMP, Cambridge, N. Y.

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JOSIAS J. GEORGE, Proprietor. Yards at Jenkins P. O., Long Green Valley, Baltimore Co., Md. City address, 443 North Street, Baltimore, Md. Light Brahmas Exclusively. Early-hatched cockerels and pullets for sale. Cockerels, \$3 to \$5; trios, \$5 to \$8. Yard headed by cockerel 1st prize at Washington, 1897.

STEPHEN SPENCER, Morris Plains, N. J.,

will offer eggs from high-class Light Brahmas and Buff Cochins, balance of season, at \$2 per 13; \$5 per 3 settings. I have bred America's best for nearly 20 years. Exhibition and breeding stock for sale. Cockerels at low prices. Write for particulars. Mention The Feather.

L. H. MORSE, Newark, New York, originator

and breeder of the celebrated Imperial strain of Light Brahmas, unsurpassed for their great size, grand shape, superb color, fine comb, profuse middle-toe feathering, and superior laying qualities. The Imperial Light Brahmas are the result of careful study in mating for finest points, without detriment to utility. They have been bred continuously since 1881, and are a vigorous, prolific strain, possessing perfect Brahma character according to the Standard of Perfection. First-class birds for sale reasonably. Eggs, \$2 per 13. Satisfaction guaranteed or money refunded.

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Brahmas, Single Comb Brown Leghorns, and Barred Plymouth Rocks. Eggs, \$1 per 13. Stock for sale. Satisfaction guaranteed. If you wish high quality and fair treatment, address, J. M. PORTER, Morristown, N. J.

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Brahmas. Breeders \$1 to \$3, one-half value. Fine Buff Cochlin Bantams cheap. Satisfaction or no sale. EMORY E. BANKS, Box 275, Crittenden, N. Y.

LIGHT BRAHMAS.—As fine as there are in

the South, as our show record will prove, birds score to 95. A fine lot of breeders and show birds for sale, including first and second prize cockerels at the State Fair. Also Minorcas, B. Langshans, Bantams, and Pit Games. W. D. HARRILL & CO., Ellenboro, N. C.

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CHAS. T. CORNMANN, Carlisle, Pa., breeds all

varieties of America's best Games, Game and Variety Bantams. If you do not believe it, look up the awards at the great shows. Eggs in season. Stock for sale. Send for price card.

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Irish Black Reds, Heathwoods, Irish and Mexican Grays, Cornish Indians, and Rouen Ducks. Buy now and save money. Mention The Feather. C. D. SMITH, Fort Plain, N. Y.

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BUFF AND WHITE WYANDOTTES.—Win-

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Winners and layers; healthy, vigorous stock. March and April hatches now being ordered. Prices reasonable. Satisfaction guaranteed. Write. J. M. HAMBLIN, HIGHLAWN FARM, Vienna, Fairfax Co., Va.

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cockerels \$2 each, no pullets for sale. Eggs, \$1 per 13. Two Bull Terrier puppies, 5 mos. old, \$3 each. F. W. TEMPLE, West Chester, Pa.

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Best all-around breed. Extra fine stock for sale at all times. My stock is strong, vigorous, and farm raised. A. H. ARNOLD, East Townsend, Ohio.

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FOR SALE.—Our entire lot of Buff Cochins to

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BLACK MINORCAS EXCLUSIVELY. (North-

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and Rose Comb Minorcas cleared the deck at the Cambridge Valley Fair; four firsts, six seconds, three thirds, the third season they have been winners. MARK SPENCER, North Salem, New York.

ADIRONDACK BLACK MINORCAS. Only

a few cockerels, hens, and pullets for breeders, left that I can spare. But I will sell show birds for any but the New York show; if I get the buyers. My Minorcas have the size, shape, and color that wins. Get circular with cut of "Adirondack Chief." J. H. DOANE, Box 145, Gouverneur, N. Y.

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HOUDANS EXCLUSIVELY for 20 years. Breeding stock and show birds at reasonable prices. Large White Holland Turkeys fit for the show-room. Eggs in season. G. A. HOBART, Chittenango, N. Y.

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BLACK LANGSHANS EXCLUSIVELY.—Fine, large, vigorous stock, good color and true shape. A limited number of settings from best breeding pen at \$3 per 15. A. M. CORDRAY, 752 Carroll Ave., Waverly, Baltimore, Md.

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WHITE COCHIN BANTAMS, Black Cochins, Bantams, Buff Cochins Bantams—Young stock for sale bred from New York and Boston winners. No circulars. No eggs. DR. WM. Y. FOX, Taunton, Mass.

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GOLDEN AND SILVER SEBRIGHT, BLACK Rose Comb, Silky, White Crested, White Polish, White, Black and Black Tailed Japs, Buff, Black and White Cochins Bantams; Fantails, White, Colored, Saddles, Tails and Splashes. Write for wants. My prices are low. Stock first class. IRVIN S. MILLER, 397 Chew St., Allentown, Pa.

AMERICA'S BEST GOLDEN AND SILVER Sebright, Buff Laced and White Polish and Black Cochins Bantams. The choicest New York winners. Illustrated circular containing winners free. C. H. PROPER, Edmeston, N. Y.

LIGHT BRAHMA BANTAMS. Won every first prize offered at New York, '98 and again at Poughkeepsie I made a clean sweep, winning 5 straight 1st prizes. A few pairs of grand birds for sale. GEO. W. HILLSON, Amenia, N. Y.

BEAUTIFUL COCHIN BANTAMS—Buff or White, at \$2 per pair. WM. M. CONNERS, Box A, Weston, Somerset Co., New Jersey.

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BLACK SPANISH—1st and 3d Madison Square, 1st and 3d Rochester, and 1st, 2d and 3d Wilkes Barre, in 1898. None better. Also breeders of Brown Leghorns (Howell and Forsyth stock). Eggs, \$1.50 per 13; \$2.50 per 26. Satisfaction guaranteed. J. W. RAEDER & SON, 57 Ross St., Wilkes Barre, Pa.

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RANKIN AND POLLARD PEKIN DUCKS direct. Fine large stock \$1 each. Toulouse Geese from prize winners \$2 each. Belgian Hares \$1.50 per pair. C. L. McFERREN, Darlington, O.

A FEW CHOICE IMPERIAL PEKIN DRAKES for sale at \$1 each. Your money's worth or your money back. MRS. LENA CARTER, Alexandria, Va.

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150 BRONZE TURKEYS, bred by my 45 and 47 lb. toms, and 22 to 33 lb. hens. For great

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CHAMMERSCHMIDT, Buffalo, N. Y., headquarters of the large Belgian Hares, bred up to standard and large size. Old and young for sale cheap. Write to me before buying elsewhere. Mention The Feather.

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G. A. FICK, 1300 N. Washington Street, Baltimore, Md., breeder of prize winners, Magpies and Swallows in all colors. Prices reasonable considering quality of stock.

25 PAIRS WHITE FANTAILS at \$5 and upwards a pair, bred from imported and best American strains. E. A. HOLBROOK, Winchester, Mass.

BLACK FANTAILS. One pair of elegant Fans at a rare bargain. Cock very stylish, elegant tail. Winners of first and cup at Springfield, and winner of first at Peoria. A fine hen for a mate. The pair only \$5. W. J. LINCOLN, Mt. Pulaski, Ill.

WHITE JACOBINS ONLY. I have 50 White Jacks now for sale. Some of the finest stock in America, fit to win anywhere. Stock and show birds for sale. Satisfaction guaranteed. H. CLOSE, Dunkirk, Ind.

PLEASANT VIEW PIGEON LOFTS. Homers of all the leading strains. Dragoons, all colors, young and old birds for sale at all times at low prices. Guarantee to please. J. B. HOFFMAN, Sanatoga, Pa.

POUTERS, ARCHANGELS, MAGPIES, Jacobins, Inside Tumblers, Dragoons, and Homers. Many show birds among them. I guarantee birds as represented or refund money. Stamp if convenient. J. W. TEDRICK, Williamson, Pa.

FOR SALE, EXHIBITION BIRDS in Pouters, Carriers, Blondinettes, Satinets, Silverettes, Turbits, Frillbacks, Swallows, Snells, Archangels, Dragoons, Tumblers, Moorcaps, Magpies, Owls, Nuns, Bruner Pouters, and Black Baldhead Tumblers. Satisfaction guaranteed. J. H. MEHRING, Littlestown, Pa.

WILLIAM GOODMAN, 509 South Front St., Milton, Pa., offers Turbits, Owls, Snells, Pouters, Fantails, Rollers, Magpies, Booted and Muffed Performing Tumblers. Will exchange for Black, Red, etc., Yellow Muffed Tumblers, Snells, or Kodak.

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TRUE WHITE HOMERS and White Fantails. 10 pairs W. Homers \$1.50 per pair, sure money makers; 1 Red Fan hen \$1; 5 fine White Fan hens at \$1 each. RICHFIELD PIGEON LOFTS, N. S. GRAYBILL, Prop., Richfield, Pa.

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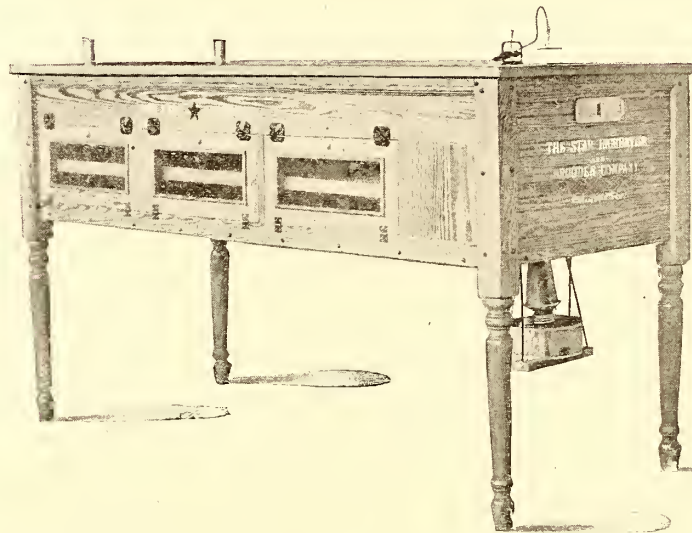
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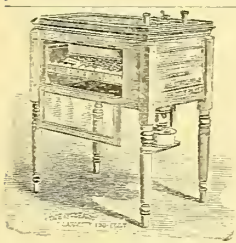
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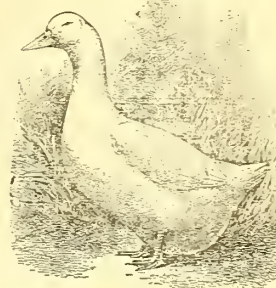
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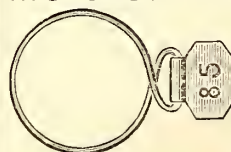
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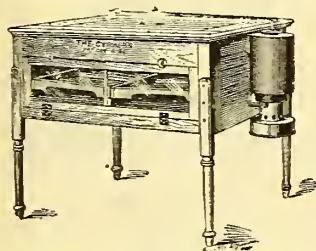
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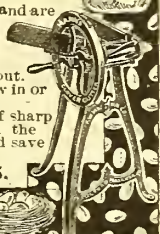
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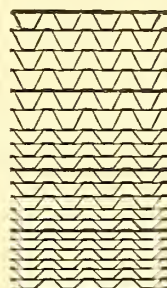
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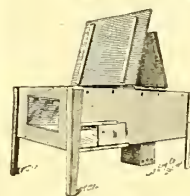
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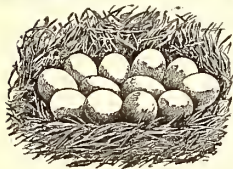
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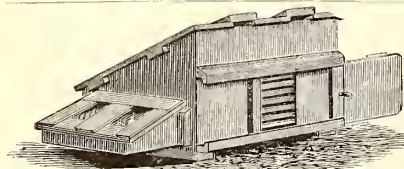
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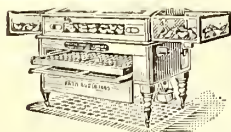
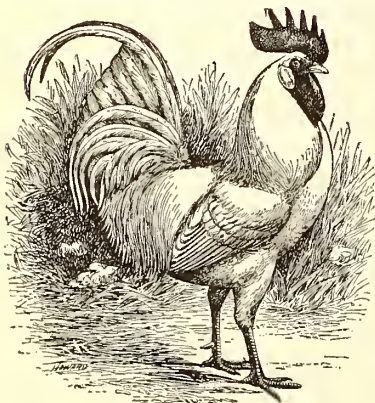
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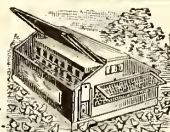


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With deep keels, but they don't say anything about **BLACK ON BEAN**.

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Were the first to be shown with deep keel, and are, we believe, the only strain that has **NO BLACK ON BEAN**. I purchased his entire strain in '92, and all breeders know they are the finest in the land and are bred with deep keels and clear yellow beaks, by—

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POLLARD'S POULTRY FARM

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Are money makers. Our Pekins the past Winter won on 6 entries at Madison Square Garden, 1, 2, and 3 on both duck and drake. At Hagerstown, Md., a clean sweep of all Pekin prizes. At R. I. Poultry Show 15 regular and 8 special prizes on 16 entries, (losing 4th on old drake). At R. I. State Fair clean sweep.

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Barred Plymouth Rocks, Thompson.
Pekin Ducks, Rankin & Pollard.**

**Selected Stock
at
Reasonable
Prices.**

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\$5 Prize Brooder.

We have purchased of A. S. Whitney, Gouverneur, N. Y., all his right, title, and interest in the famous \$5 PRIZE BROODER. Our large and modern equipped factory and the advantage of our location will greatly facilitate the manufacture and shipment of our goods, as well as making a large saving to our customers in the cost of transportation. The \$5 PRIZE BROODER stands without an equal as a complete brooder house, summer or winter.



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CUT Clover (Frt prepaid on 200lb. lots) 100 lbs. \$1.
Crushed Oyster Shells, \$6.50 ton, 100 lbs. \$1.00
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Bone Meal, Granulated Bone, Crushed and Grated Oyster Shells and Charcoal, Lime-stone, Grit, Bone Mills and

Everything For The Poultry Yard
For Sale at Reasonable Prices.

THE CROWN BONE CUTTER

We are now offering as a specialty a new Bone Cutter—The Crown—at the exceptionally low rate of

**\$6.50 with Balance Wheel (without stand)
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ON TRIAL**

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Some good ones coming along that will be heard from later.

If you are after **BUFFS** write now and get first pick. Correspondence a pleasure.

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Trafford's Buff Rocks

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This season's breeders for sale now at a sacrifice to make room. Grand lot of early chicks Sept. 1st. Satisfaction guaranteed or stock may be returned and money will be refunded.

HENRY TRAFFORD, Greene, N. Y.

Stuckey's Buff Plymouth Rocks, Are Birds of highest quality also prize winners in high society and high scoring. My breeders and young birds for sale at great bargains if taken early.

Fancy Buff Leghorns. White Rox. No better East or West than some of my Prize Winners. Also Now is your chance to get good birds. Don't fail to write if you want good stock. Address, **C. J. STUCKEY, Lincoln, Ill.**

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**BARRED PLYMOUTH ROCKS,
WHITE PLYMOUTH ROCKS,
BUFF PLYMOUTH ROCKS,
SILVER WYANDOTTES,
WHITE WYANDOTTES,**

Have won more prizes at the leading shows of America and England than all others. The product of my 1898 matings is superior to that of previous years.

At the Great National Show, WASHINGTON, D. C., December, 1897, in hot competition with over 300 Birds of these varieties, the best that could be found regardless of price, I won 45 Regular and Special Prizes on 39 Entries, including First Prize on Breeding-Pen in each variety. Special for Best Display in the American Class, Special for Best Exhibit of Plymouth Rocks. Sweepstakes Special for Best Cockerel in the Show (Bantams excluded), and this on my First-Prize Barred P. Rock Cockerel. My winning White Wyandotte cock was pronounced by the judges to be the best they had ever seen. I won twice as many first prizes as all other exhibitors of these varieties. My customers are winning all over the country. Hundreds of Choice Exhibition and Breeding Birds at honest prices. Catalogue of America's finest P. Rocks and Wyandottes free.

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"NEW YORK CHIEF."
1st Clk. N. Y. City, 1897.
1st Cock N. Y. City, 1898.

THE PINNACLE OF FAME

Has been reached by

Robinson's Black Langshans

At Madison Square Garden, New York, 1898. America's Greatest Show.

14 PRIZES ON 15 ENTRIES.

1st and 3d on cocks, 2d, 3d, and 5th on cockerels, 2d, 3d, and 5th on hens, 1st and 2d on pullets, and 1st, 2d, and 3d on exhibition yards. Grand special for best Langshan any color. In the last four years the bulk of all the prizes has been won by this strain at this great show, viz:

51 prizes out of 57 competed for.

14 first prizes out of a possible 20.

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Eggs, \$5 per 13; \$9 per 26; \$12 per 39.

Finely illustrated circular for 2-cent stamp.

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Sec'y and Treas.



ARE YOU READY

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...DENNY'S BUFF ROCKS...

Are going fast.

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THE "RINGLETS" SOAR STILL HIGHER

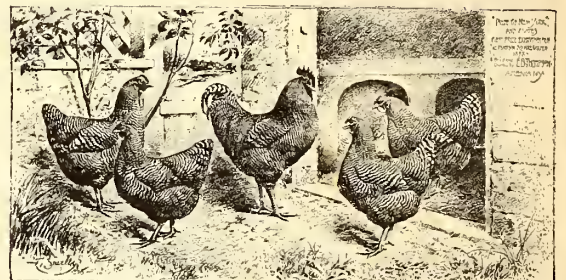
AT NEW YORK, FEBRUARY, 1898,

E. B. Thompson's Barred Plymouth Rocks,

Again won all the Sweepstakes cups and Trophies, including the Superb Challenge Trophy, value \$100, for best cock, cockerel, hen, pullet, and exhibition pen. Sterling Silver Cup, value \$100, for finest exhibit. Grand Special Sweepstakes Cup, value \$100, presented by the President for best cock, cockerel, hen, and pullet, Plymouth Rocks, any variety.

**My Clean Sweep of 1st, 2d,
3d, 4th and 5th Prizes on Pullets**

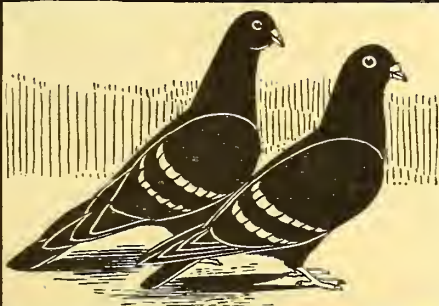
Has never been approached in Madison Square Garden and stands alone and unequalled. The record of both 1st and 2d Prizes on Breeding Pens is also phenomenal. At New York, 1895-6-7 my Barred Plymouth Rocks won almost 3 times as many 1st prizes as any other exhibitor, and more 1st prizes than all competitors combined. Grand Stock for sale. Show birds fit to win in the fastest company. Elegant Breeders in any number. Richly illustrated catalogue on Application. Address,



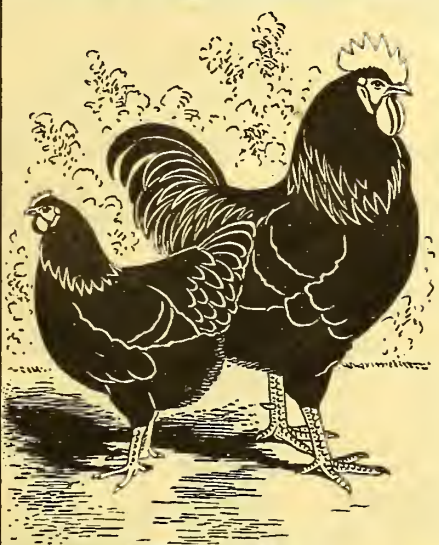
First-Prize B. Rock Pen at New York, February, 1898.

E. B. THOMPSON, Box 406, Amenia, Dutchess Co., N. Y.

The Feather



PIGEONS.



POULTRY.

WASHINGTON, D. C.

Vol IV. JANUARY, 1899. No. 4.

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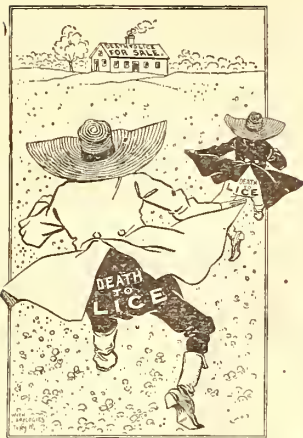
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They're Going For It.



WE Believe that 1898 will be the best year the poultry fraternity ever saw. We know that breeding and exhibition stock has sold well all Winter. We think more eggs for hatching will change hands this Spring than ever before. We are sure more lice will make their appearance. We shall put more Lambert's Death to Lice on the market. We will guarantee it to do more good work than any other insecticide.

WE Set a multitude of hens every Spring. We dust them well with Death to Lice. We never have a hen leave her nest on account of vermin. We never injure the fertility of the eggs with this powder. We never have little chicks now with sore eyes, and we never fail to make this chicken business pay well year by year.

WE Try to tell others how to succeed. We assure them that lice are their greatest enemy. We offer them a remedy that is cheap, safe, and sure. We handle thousands of specimens at the shows while judging. We find some that are very lousy. We are sorry for the birds, because they are not to blame for their lousiness. We know they score less, win less, while the difference in awards would buy perhaps a hundred weight of Death to Lice. We would advise their owners to try it and see.

WE Have enlarged our factory the past Fall and Winter. We are now enjoying an abundant trade. We thank our many patrons for their numerous unsolicited testimonials. We shall continue our endeavors to serve them well.

WE Send a trial 5 oz. box for 10c. postpaid. We ship a 48 oz. for 50c.; 100 oz. for \$1. by Express from nearest agency. Buyer pays Ex. We furnish dealers at wholesale who can sell at our retail prices. Send for list of agents. We also make an Ointment for head lice that does the work without injury to chick or child. 10c. postpaid. Book free.

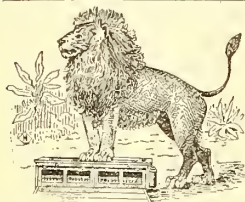
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LINWOOD POULTRY YARDS

Established in 1874.

Chas. McClave, Owner, Box A, New London, O.

Veteran breeder of prize-winning Black Minorcas, P. Rocks, L. Brahmas, P. Cochins, Langshans, Leghorns, Wyandots, Polish, Bantams, Bronze Turkeys, Geese and Ducks. Over 3,000 prizes won by my birds. Hundreds of choice birds for sale at all times. Prices reasonable. Send for fine catalogue telling all about my birds. All stock farm grown, strong, vigorous and healthy. Low rates by express, prompt service, best quality and satisfaction to all.



The Two Monarchs...

Of the two, the MONARCH INCUBATOR is the better, because it is a practical, successful machine, and one that will give greater satisfaction than any other on the market.

All the large New England poultry growers use them, many firms using from 15 to 25 of our 600-egg size. More than 1,000 barrels of dressed poultry shipped to market each season, within a radius of a few miles of our factory, all hatched in "Monarch" Incubators.

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The prize winners' Home.

We have now 1,000 youngsters and have concluded to give the readers of this journal a snap in offering our breeding stock at a great sacrifice: 2 breeding yards of Buff P. Rocks, 10 hens and cock \$15 a pen, one \$20; 6 hens and cock, Buff Wyandots, \$10; 8 hens and cock, White Wyandots, \$15; 6 hens and cock of Black and White Langshans, \$12 each; 8 hens and cock, Buff Leghorns, \$15; 6 hens and cock, Mottled Anconas, \$25. Grand Homing Pigeons of the finest breeding quality, 3 pairs young \$2. Be quick; first come, first served. Mention The Feather.

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1st Prize Drake, 1st Prize Duck, Hagerstown, Md., 1898,

Were **Pecunia Pekin**, as we breed them. Lay more eggs, lay them earlier than any other pure strain. No Aylesbury blood in them either. Eggs, \$1.50 per setting in spring; \$6 per 100 for incubators.

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Invincible Wherever Shown.

At the Buffalo show, January, 1898, on entry of 16 birds, won—1st and 2d cock, 1st, 2d, and 5th hen, 1st and 3d cockerel, 1st, 2d, 3d, and 4th pullet, 1st pen, and three \$10 specials for best cock, hen, cockerel, and pullet.

At the great Rochester show the week following, on an entirely different exhibit, my birds won—3d, 4th, and 5th cock, 1st, 4th, and 5th hen, 1st and 2d cockerel, 1st, 2d, 3d, 4th, and 5th pullet, 1st pen and \$40 gold watch for best 10 birds. A few good females yet for sale.

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Won at the recent great Rochester show—1st and 4th cock, 1st and 2d hen, 1st, 2d, and 3d cockerel, 4th pullet, 1st pen, and special for best display of 10 birds. Eggs, such as I use for my own hatching, \$3 per setting; 2 settings \$5.

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These grand and noble fowls are fast coming to the front. Their beauty and utility are acknowledged by all. Stock for sale. Eggs in season. Prices low. Circulars free.

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A few choice White Leghorns, (Knapp or Wyckoff) May, \$6 a trio. R. C. Black Orpingtons, from imported stock, \$10 a trio. White Wyandottes, (Duston stock) \$6 a trio.

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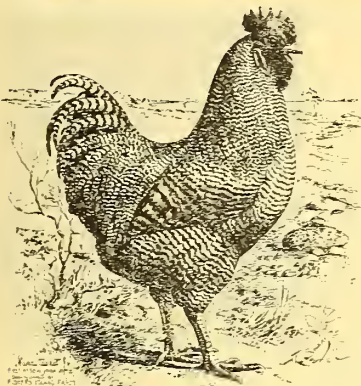


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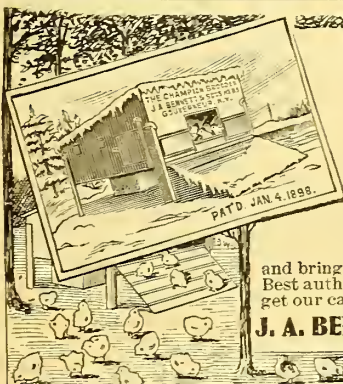
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in that cold snap" has been the verdict on many a luckless brood of chicks. The fault was in the brooder. If they had been bred in

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they would have come through all right.

"The Champion Is Known by Its Work"

and brings its brood successfully through, even in zero weather. Best authorities say it is perfect. Don't buy a brooder until you get our catalogue and endorsements.

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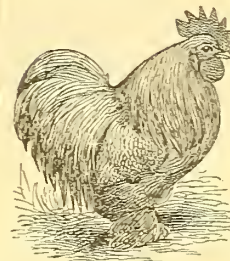
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No Eggs for sale.



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Will sell a limited number of eggs from these birds at \$5 per 15.

Also eggs from a very fine pen of females, headed by the 2d-prize cockerel (same show) at \$3 per 15.

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There are no finer birds of these two varieties in this country, and you will positively receive eggs from the birds you order.

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At Upper Marlboro, Md., September 6-9, 1898, I won the following: 1 pen White Wyandottes; 1 pen, 1 cockerel, and 1 pullet, Black Minorcas; 2 pen, 2 cockerel, 1 pullet, Barred Plymouth Rocks; 2 cockerel, Indian Games. At Old Dominion Poultry Association, Hamilton, Va., November 2-4, 1898, 1 and 2 pens, 1 cockerel, 1, 2, and 3 pullets, in Black Minorcas; 2 cock, 2 and 3 hens, 3 cockerel, 2 pullet, White Wyandottes; 1 cockerel, 2 pullet, 3 hen, Indian Games.

BLACK MINORCAS, BARRED PLYMOUTH ROCKS, WHITE WYANDOTTES,
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Farm raised, large, strong, and vigorous. I have some fine cockerels and pullets and good breeders for sale at reasonable prices. Eggs, \$2 per 13.

I won at Upper Marlboro, Md., September 6-9, 1898, 1st hen, 1st cockerel, 1st and 2d pullets. At Hamilton, Va., November 2-4, 1898, 1st and 2d cock, 4th hen, 4th cockerel, 1st and 3d pullets, 1st pen

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MY Barred Plymouth Rocks

Again show their superiority. Winning the much coveted prize of 1st on cockerel. Grand Gold Special Prize for best P. Rock, any color, in the show; also 3d and 4th Hen. Send for my circular (free) giving my winnings at same show for past nine years, Columbian Exposition, Washington, D. C., etc.

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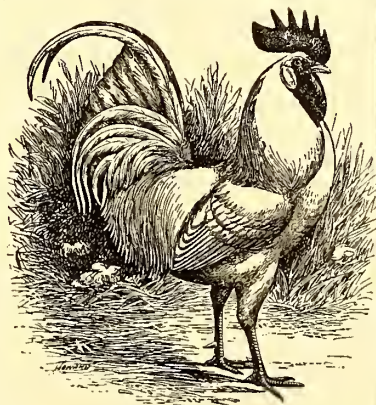
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Colony plan. Stock bred from two-year-olds, insuring size and vigor. Barred Rocks, \$1.50 each and upwards. Our Ducks are the equals of any ducks, \$1.50; drakes, \$2.

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These birds are without question the best lot ever offered from my yards, and when in need of either cockerels, pairs, trios, or any sized breeding pens you will make no mistake by investing in this The World's Greatest Laying Strain of S. C. White Leghorns.

Can furnish cockerels and hens not related, and either cockerels or hens not related to any former stock sent out from my yards. When convenient for them to do so, I shall be pleased to have intending purchasers visit my yards and examine stock before buying.

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At Mt. Gretna, 1897, Zimmer, Judge, I won 1st and 4th cockerels, 1st pen, 2d cock, 2d hen, and special for best 5 Barred P. Rocks in the show. At Mt. Gretna, 1898, Zimmer, Judge, no old birds shown. I won 1st pullet, 2d cockerel, 4th pen. At Carlisle, Pa., 1898, Drenstedt, Judge, I won 1st and 2d cockerels, 1st and 3d pullets, 1st hen, 1st pen, and 2d cock. At Hamilton, Va., 1898, 4 entries in open class won 1st cock, 1st hen, 2d cockerel, 3d pullet. I will sell for the next 30 days pens consisting of 1 male and 4 females for \$10. This is a better opportunity to buy a good breeding pen than to wait until February when breeders have selected their flocks over several times. N. B.—Incubator eggs from 200 Barred P. R. hens, in 3 lots, with free farm range. \$4 per 100 eggs. My best shaped, yellow-skin males running with hens.

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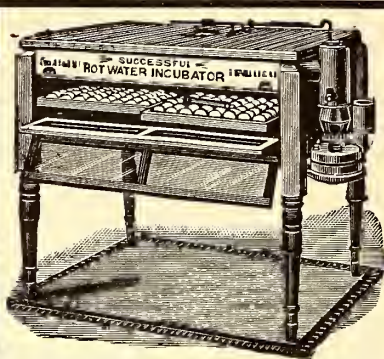
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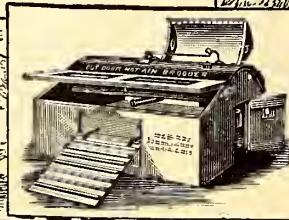
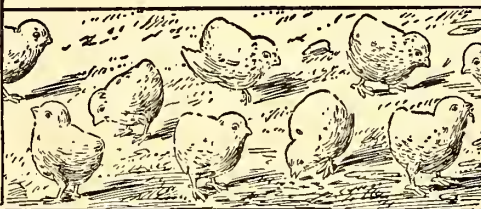
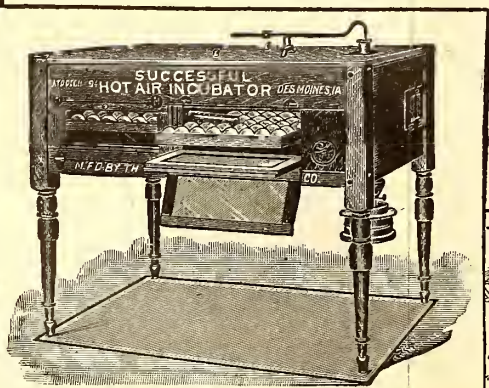
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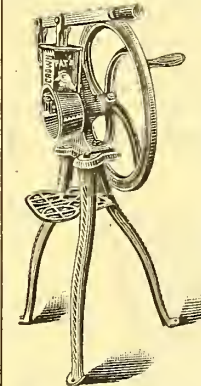
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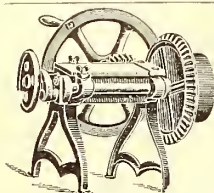
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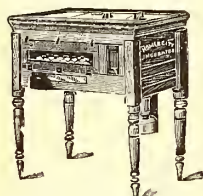
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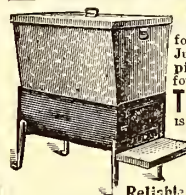
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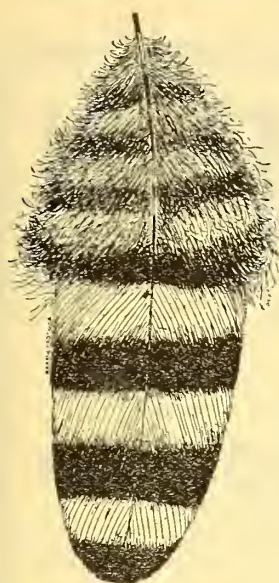
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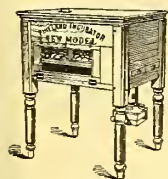
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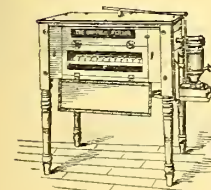
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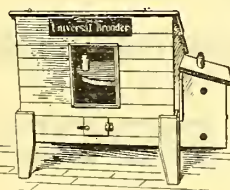
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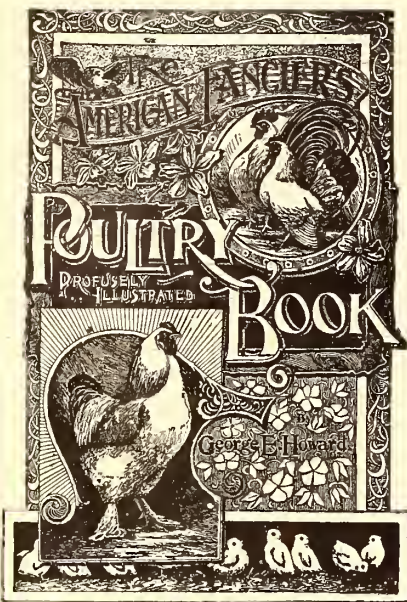
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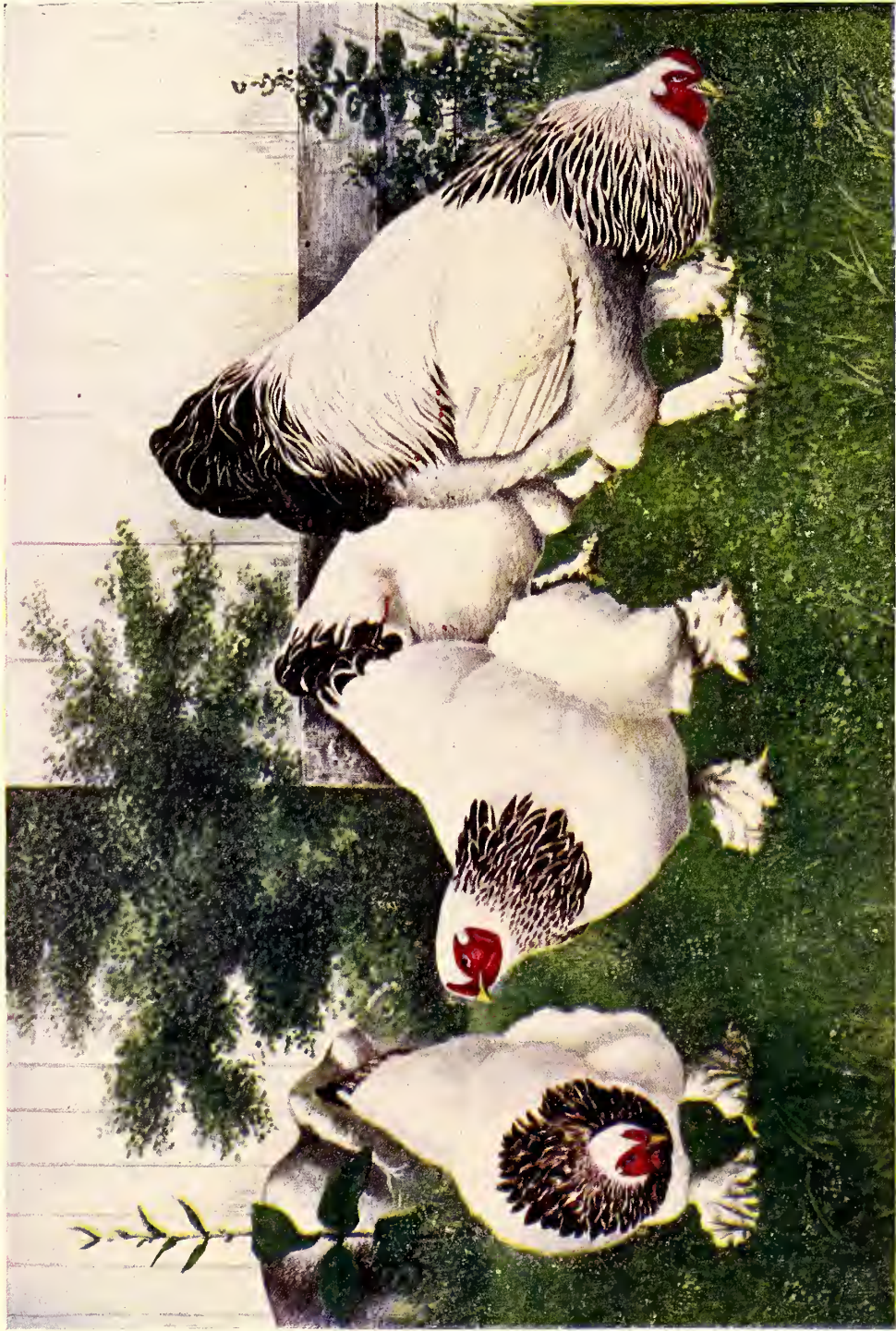
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SUPPLEMENT TO THE FEATHER,
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VOL. IV. No. 4.

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The foregoing is a plan for feeding young turkeys where they have free range, but if you are on limited range, the best

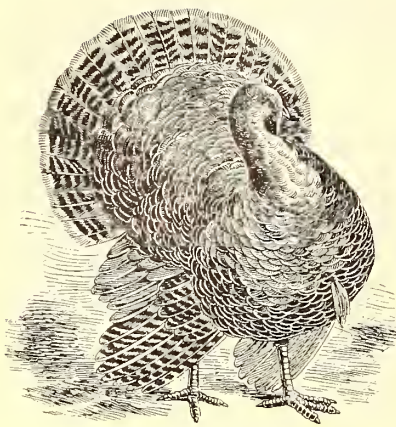
plan I know is to take three boards, make a triangular pen fourteen inches high, put the young poults inside of it with the mother, and feed them there until they are old enough to jump over the boards. As a rule after that time it will be all right to give them free range.

Many people think it is necessary to put the hen turkey in a coop to keep her near her young, but this is not true, as she will stay by the little ones and it is almost impossible to drive her away. Where the young poults are confined in a pen as above described, it is necessary, when they are young, to feed them four times a day with stale bread moistened with milk, and give them fresh water or clabbered milk also four times a day. It is also very good to give them a little red pepper mixed in with the bread about twice a week, as it seems to tone them up a little. Should you find that the young turkeys are drooping and do not seem to pick up, the very first thing to look for is lice. If

young turkeys are lousy it is impossible to raise them. Hen turkeys generally keep free from lice, but some are the same as human beings, very filthy, and all the young poults they will ever have will be lousy, the same as the mother. In looking for lice it is best to examine the little wings, as generally you will find them in the quills, or where the quills should be. They can be killed by using Delmation Powder or any other good insect powder, by dusting them with it. After dusting them with Delmation Powder they will look like a little yellow ball, and in two or three days will commence to brighten up. I feed them this stale bread moistened with milk for about four weeks, or until the young poults are able to take hard food; then, when they have limited range



J. F. CRANGLE.



BRONZE TURKEY.

and have to be fed, I would feed cracked corn and wheat alternately, but both grains should be scalded and not fed to them until it has cooled. If your poults should have diarrhea from any cause, usually one feed of boiled rice will stop all bowel trouble. Just give them what they will eat up cleanly.

I commence to feed all turkeys the first of October, or not later than the middle of October, in getting them ready for Thanksgiving or for the markets. They should be fed morning and night, but never feed them more than they will eat up cleanly. In fact, a great deal of trouble is caused sometimes by giving them too much to eat. At the time you start to feed them you should only give them sparingly for the first week or ten days, giving it to them night and morning. The principal food from October until the first of December will be corn, either whole or cracked. Above all things do not feed any new corn. I have seen very bad effects result from feeding new corn, and have seen large flocks of turkeys knocked out from this cause. It gives them diarrhea and they get it into their systems and it is very difficult to stop it. Even after you have stopped it you have lost so much time in getting rid of it that they do not recover for weeks.

As a rule most of the turkeys will be fat and fit to kill at Thanksgiving time, but there may be a few that will have to be carried over until Christmas. Many people advocate shutting up turkeys, confining them, in order to fatten them. I have tried this plan and found it to be a failure. Many times people can not understand why their turkeys are not as fat as they should be, but almost invariably you will find that they fed them in confinement, and the turkeys could not stand it, especially for a long period of several weeks. The best way we know of is to give them free range, for generally you will find that turkeys will not wander far away from the farm buildings in the fall when the weather becomes cool. They will eat their morning's feed and most of the time during the cold winter will lie down in a warm place and sun themselves. If the turkeys are shut up about five days before the time you wish to dress them, I think they will

be in the best possible condition.

A great many people think turkeys need to have shelter in the way of a building. That idea is entirely wrong. The best possible way of keeping turkeys in good health is to have them roost away from buildings, perhaps in trees or in a place sheltered from the winds. I have known turkeys to sit out in trees with the thermometer fifteen to twenty degrees below zero and be much healthier than turkeys that were inside a building. The only thing about it is this: A turkey can stand any kind of cold weather if they are roosting in a lee place where the wind does not blow too hard so that they can keep their heads under their wings. I have seen turkeys in trees outside in a snow and rain storm with the wind blowing at the rate of forty miles an hour, and the colder it got the higher up they would want to go, instead of wanting to come down.

NOTES.

The ordinary turkey of a few years ago, as bred by the average farmer, would weigh about as follows: Toms, about twenty pounds; hens, about six pounds.

The standard turkey now weighs: Young toms, eight months old, twenty-four pounds; hens, ten pounds. Where an old-fashioned turkey weighed eight pounds, the modern turkey now weighs twenty pounds. One of the largest of the old-fashioned toms weighed twenty to twenty-two pounds, but the standard tom of to-day weighs thirty-five pounds or more.

Understand, as a rule, a hen turkey will never want to be served but once.

White Holland Turkeys can stand

confinement much better than the Bronze, and will endure it almost as well as a hen. They will lay about the same number of eggs as the Bronze.

The Narragansett is a very nice turkey, but no better than the Bronze; in fact, not so good, because they are not so large and not quite so nicely shaped. But the Narragansetts are next to the Bronze in general utility.

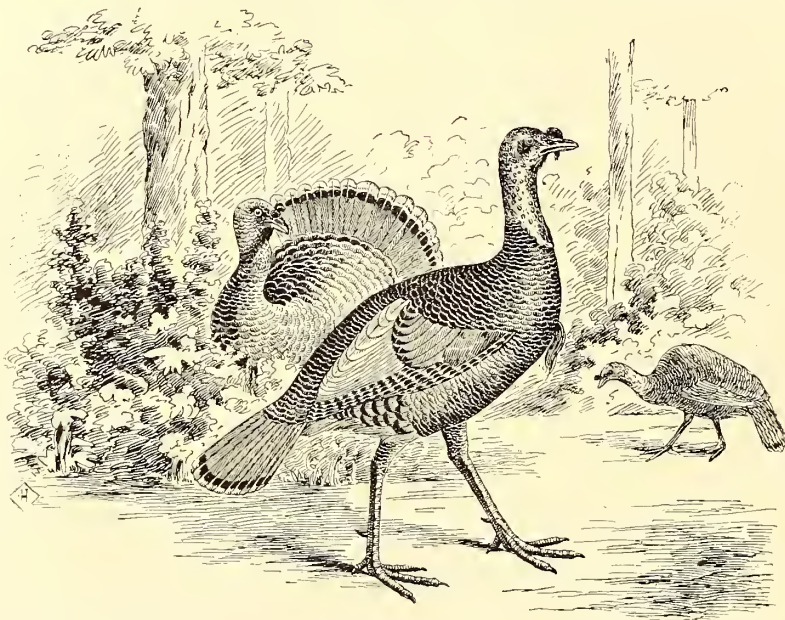
There are the Bronze, Narragansett, White Holland, Black, Buff, and Slate Turkeys. The Buff and Slate Turkeys are, for practical purposes, no good, and are only kept as a matter of fancy for their color and are very small and inferior to either of the other varieties. The only turkeys which are fit to breed are the Bronze, Narragansetts and White Hollands, simply because the others are too small. The Narragansetts are almost extinct, as there are but very few of them bred. The White Hollands are the gentlest of the three varieties by far.

If You Knew.

Editor The Feather:

THE FEATHER is supposed to be a poultry paper, but I think it would surprise even yourself if you knew the number of letters I get from my ad in it regarding Beagle Hounds, and the number of sales I have made the past fall from my ad. May your paper continue to wear fine "Feathers."

F. B. ZIMMER, Gloversville, N. Y.



WILD TURKEYS.

POCKET-MONEY POULTRY.

Balanced Rations—Digestive Co-efficients—Testing Eggs—Scoring—Exhibiting.

The Embryo Chick at Testing Time.

BY MYRA V. NORYS.

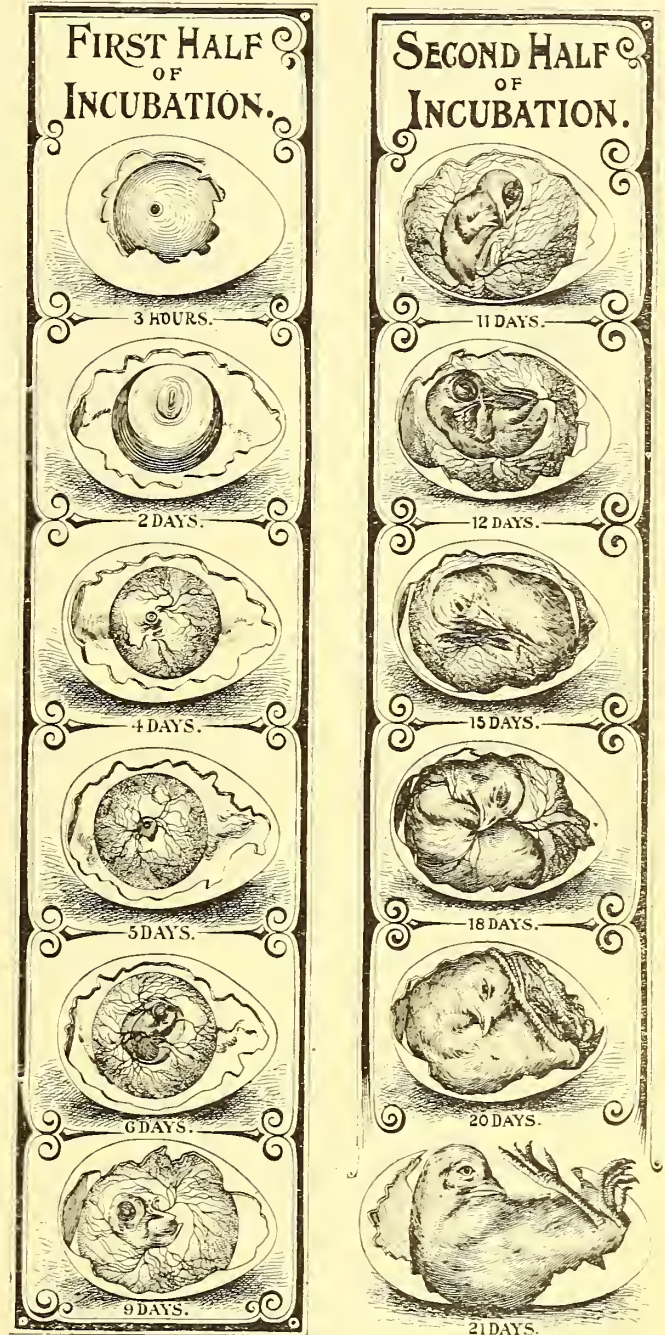
THERE are two other ideas which I desire to get very firmly fixed in your mind, and the words which may represent them are "Balance", and "Digestive co-efficient". "Balance" refers partly to the proper proportion of muscle makers and fat formers before noticed, and also to a proper proportion of concentrated food, to food containing waste. Water is in one sense waste, and most foods contain this. But there must, also, be bulky waste, in order that the digestive functions may go on properly. As a rough rule, it may be said that grains and meats are concentrated, vegetables and fodders are bulky.

The "Digestive co-efficient" may sound like a hard thing to tackle. But the woman who is properly grounded in percentage will find it simple enough. Nearly all foods have a certain proportion of indigestible substance. The digestible co-efficient is nothing more nor less than the percentage of digestibility. For instance, suppose that a food is twenty per cent protein, and the digestive co-efficient of the proteins in that food is eighty per cent. This means that eighty per cent of the twenty per cent of proteins is digestible. That is, sixteen per cent of the whole amount of the food under consideration is digestible protein. It is found simply by multiplying the whole amount of protein by the digestive co-efficient. The composition of foods, and the various digestive co-efficients are found in tables, based on experiments already made. Government hand-books supply these. If it happens that no tables of co-efficients are at hand, one may subtract about ten per cent from the grains as indigestible, this being a rough average.

Let us suppose that corn has been almost the sole food given by some one who wonders, with some sense of irritation, why her hens have not laid at all. Tables vary somewhat (as does corn, also) and the novice may be puzzled thereby. The chief cause, perhaps, lies in the fact that some tables are reckoned on stuffs in ordinary condition, or "air-dry", as it is called; others are calculated on the composition after the water has been extracted; that is, on "water free" substances. Corn has a ratio of from one to seven, or eight. This is far too wide for best results, when feeding for eggs. A ratio of one to four, or even narrower, is contended to be the best when all points are considered. The egg itself has a ratio, shell and all, of nearly one to two. But, considering that only a part of the food eaten goes to form the egg, a food with this ratio would not answer all the requirements.

To bring the corn ration down to one to four, we might add cut clover, so popular as an egg food. But, to one pound of corn, we would need five or six pounds of clover, and this would be both unpalatable, and too bulky. We must look for something richer in protein and more concentrated. Here is where the meat-meals come in. If we took our pound of corn, another pound of the cut clover, and one pound of a meat-meal high in protein, we could bring the ratio at once below the desired one to four. This, too, is injudicious, because one-third meat-meal is too heavy a ration.

We must never forget that we are to use food stuffs that, while giving the required proportions and palatability, are the cheapest available to us. We must, then, make up our own rations. A young chemist near Boston, F. L. Marion by name, figured out a ration from stuffs cheapest to him, and which gave excellent results. Circumstances may have led him to change it before this is written, even, but it may do as a sample. It is for 220 hens. Cut clover, $2\frac{1}{2}$ pounds; meat-meal, 8 pounds; Chicago Gluten Meal, 4 pounds;

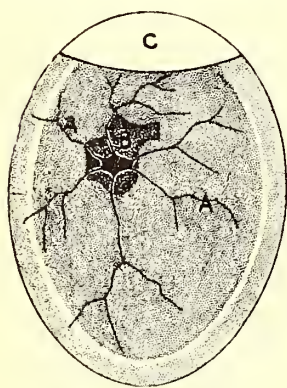


corn meal, $3\frac{3}{4}$ pounds. This was for the mash. The night feed was: Wheat, 6 pounds; corn, 1 pound; barley, $1\frac{3}{4}$ pounds; buckwheat, $1\frac{3}{4}$ pounds. I think the ratio of the mash is about one to two, or a little less; that of the grain feed, one to seven; the average, nearly one to four, calculated air-dry. This is rather heavy feeding of meat, when given every day. Personally, I should not venture to feed so heavily, with my present experience; but it brings the eggs,

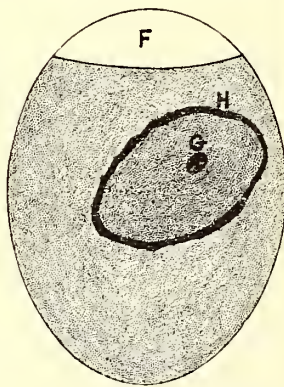
Linseed meal is another source of much protein, and often takes the place of meat. A German laying ration, calculated for 100 hens, looks to cheapness, and leaves out both meat and linseed, getting its protein from malt sprouts and bran. It is composed of: Malt sprouts, 5 pounds; bran, 10 pounds; potatoes, 10 pounds. Simple enough, easy to get, and correct in ratio. I do not know the source of this and can not give due credit, but it is vouched for by a State Experiment Station.

THE EMBRYO CHICK AT TESTING TIME.

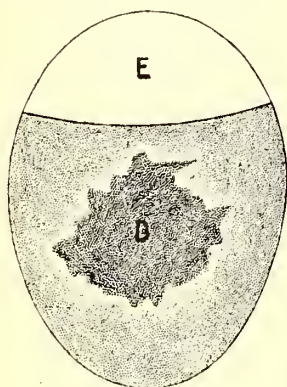
The practice of testing eggs is gaining very rapidly in this country. But there are still many to whom it is unknown, or who look upon it as an intricate matter, quite beyond them. As a matter of fact, however, with a simple pasteboard tube, and a study of



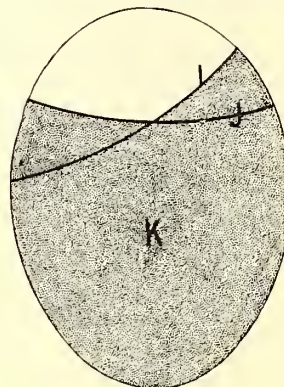
A STRONG FERTILE EGG.



A WEAK OR IMPERFECTLY FERTILIZED EGG.



A STALE EGG.



THE AIR SPACE ON THE 16TH DAY.

eggs under incubation, any one can learn to test them, even without instruction. But unquestionably, a little help from those who have gone before smoothes the way, and hastens the worker's acquisition of the desired knowledge and experience. Concerning the testing tube, two points are essential: It must be opaque, and it must be of such size at the end farthest from the eye that the egg, laid sidewise against the opening, completely shuts out the light. In making such a tube, by rolling paper over a cylinder, it is best to fit the opening with an average-sized egg before the tube dries. The learner should begin with white-shelled eggs, if possible. The deep brown-shelled ones are much more difficult to test, and the work must be done at a later stage. With white-shelled eggs, after a little experience, one can tell pretty accurately on the fifth day, although the seventh or eighth shows the changes that have gone on in the egg much more distinctly.

I know one worker who often tests eggs by holding

them up to a knot-hole in one of the barn boards, when the sun is striking full upon it. One needs no better way, but as knot-holes are not always handy, a lamp is commonly used. If it has a reflector, so much the better. The stronger the light, the earlier and the more easily can the work be done. One may test in fair light on an ordinary sunny day without a lamp, making sure only that the tube with its egg is between the eye and the light, the latter striking squarely on the egg. Two things will greatly aid the learner in his study; one of these is to compare the eggs to be tested with a perfectly fresh egg whenever there is any doubt. The other is, to break out incubated eggs, at various stages, to find out how they look inside, noticing the position of the chick in the egg, etc. For instance, in the very early stages, the part which is the head is downward; later, the chick turns on its side, and lies crosswise of the egg, through a comparatively long period; while, toward the last, it again turns, so that its head is toward the broad end of the egg.

On breaking out an egg about five days incubated, it will be noticed that the chick, so far as it is developed, spreads over one side of the yolk, chiefly a network of veins. If we are looking at this chick while within the shell, the position in which we hold the egg will make considerable difference as to our apprehension of its actual state. The general rule to be laid down is, that an infertile egg is absolutely clear, while a fertile one is opaque. But this opacity varies greatly, both as to degree, and as to the portion of the egg which it covers. Looking at the egg five days incubated, the learner may think it clear, and lay it aside with a sigh. A second look, however, at the other side of the egg might show it quite decidedly clouded. Thus, it is impossible to be sure that an egg at this stage is infertile without looking at it from all sides. The reason for this is quickly seen when we remember that in the broken egg, the developing chick, at this stage, covered but one side of the yolk. But of this much one may always be certain: Whenever the egg shows any change from a perfectly clear condition, it has been fertile, and the fertile germ has begun to develop. It may have died, but life has certainly been there.

There must be in connection with this period quite a little study of fresh eggs of the various shades of color; otherwise, the difference made by the brown shell may be taken for the opacity caused by life within. The fresh egg, however, or the infertile egg early in the period of incubation, is exactly alike throughout. Even the air-space at the large end does not show. Very soon after the chick begins to develop this air-space, then always clearer than the rest of the egg, can be detected by a sharp eye. It shows more and more plainly as the embryo solidifies and the opacity becomes more dense.

When it comes to pricing fancy stock, it is essential to know the Standard. The woman who breeds fancy stock, in order to work intelligently, must either hire a judge to score her birds each year, or else must learn to be a poultry "judge" herself, so far as the breeds she raises are concerned. The cheapest way, perhaps, is to engage a good judge to spend some time in her yards, both scoring birds, and teaching her how to score. One can not be an independent breeder without this knowledge. "Points" add to price every time; and when almost at the top, even half-points add dollars to the selling value of the specimen. The Standard says that birds must score ninety points in order to receive a first prize; eighty-five points to receive any prize at all. There are a dozen or more sections in the common method of scoring, and a bird that happens to

be defective one point in each of these sections will scarcely be able to much more than reach the eighty-five points necessary to be entitled to even the lowest prize. Exhibition value, as a rule, determines selling value.

Where competition is hot, the difference in values between the three winners is often covered by a point, or a point and a half. Hence these small variations in value must add largely to the price. The prices for males are always higher than those for females of the same breed, being often nearly double. The Mediterraneans have the lowest values, the medium-sized birds next, the heavy breeds being rated the highest. This is a general reference to the best-known breeds, and is not intended to apply to freaks, nor to varieties not popular. The Plymouth Rock, too, may be considered as a slight exception to the general rule, as the difficulty of breeding it to the choicest barrings renders the price of phenomenal specimens exceptionally high.

Knowing the number of points which a specimen will score, any woman is in a position to put prices upon her birds in a way that shall be satisfactory to all who understand the proper values of fancy fowls. A 91-point Brahma male, may be worth \$5, say, and a 94-point bird \$15; a half point added may shove this value up to \$25; another half may double even this, while phenomenal specimens may be worth \$100 to the buyer who really wants them. Looking at the Mediterraneans, we shall find that 91 and 92-point birds are worth from \$3 to \$5, if males. They may reach \$10 at 94 points, \$15 at 95, and phenomenal cases may push the price up to \$50. The range for determination of value between the lowest and highest prices here given, is only six points, all told, and the value of a specimen may, in certain cases, be doubled by increasing his weight, improving his condition, or properly preparing him for exhibition.

(To be continued.)

ROUP.

December 18. Three Plymouth Rock cockerels, with slight colds, discharging at nostrils only, thin in flesh, were placed in coops in a warm room; nostrils were cleaned daily, and two drops camphorated oil inserted, also gave a two-grain quinine pill daily. There was no perceptible change up to the 25th. They had been fed on regular morning mash at 7 a. m. At night cracked corn was given (all they would eat clean). December 26, discontinued using camphorated oil and quinine, and began bathing heads daily with kerosene oil, and adding one ounce pepper to each quart of soft feed. A change for the better was noticeable by the eve of 27th. Next day being quite cold, they seemed droopy, but ate their feed very well. This latter treatment was continued until January 10, 1898, when they were released in good health, but still thin in flesh. No return of the disease afterwards. Weights as follows: When cooped, 5.6, 5.4, 6; when released, 5.9, 5.15, 6.8.

October 17, 1897. An Indian Game pullet, from miscellaneous yard, contracted a deep cold, which caused heavy discharge from nostrils and her throat to be filled with slime, so much in fact that she could breathe only with greatest difficulty. She was cooped at once; nostrils cleaned and camphorated oil inserted; her throat was thoroughly swabbed with kerosene oil daily, but did not improve. 25th, gave one teaspoonful salts. 26th, bowels very loose. 28th, much better, throat being free from any slime, and discharge at nostrils had discontinued. I then placed two more

pullets in same cage affected in similar manner, but not as far advanced. Applied to throat and nostrils kerosene oil daily. During the whole period they were fed just as if at liberty, supplying, of course, grit and green food. All were released November 10, being in perfect health.

November 17, 1897. An Indian Game cockerel running in miscellaneous yard was missed, and after a search was found under the feed-room, with both eyes closed, face swelled badly. A very offensive odor from nostrils was noticeable at a distance of four feet. He was very much emaciated, and so weak he could scarcely stand. A coop was prepared and placed in office near the stove, and, after giving him a teaspoonful of Epsom salts, his head was washed daily for four days with strong salt water. A two-grain quinine pill was given daily until November 22. As he could not see to eat for the first six days, he was fed four times daily on a small quantity of morning feed. November 23, eyes opened, and appetite better; discharge from nostrils less. The daily application of salt water was continued. He improved rapidly until the 28th, when eyes and nostrils were in normal condition, and but for being thin in flesh, was in good condition. The weather being cold, did not liberate him until November 30, 7 a. m. By evening his eyes were again watering badly, which proved that he was turned out in the cold air too early. Re-cooped him, and on December 11 released, being in fine shape. His weight, when cooped, November 17, was 3.2; when released, December 11, 4.

Above cockerel had been roosting under the feed-room, where cold winds could strike him from north and west.

December 15. When separating the fowls that occupied the large Fair Building, quite a number of younger fowls were found that had colds and were very thin in flesh. Six Plymouth Rock cockerels were placed in a large cage, and heads and nostrils daily bathed in pure kerosene oil. Half an ounce of Epsom salts was put in their drinking water every other day. They were fed on soft food twice daily, to which had been added a liberal quantity (one ounce to each quart) of black pepper. They improved rapidly, and were released December 26. Total weight cooped, 33 pounds; when released, 46 pounds. Neither one showed any signs of cold afterwards. Their roosting quarters were changed to a less exposed place on December 24.

December 18, 1897, several fowls, running in miscellaneous yards, were noticed affected with colds, and three were selected and placed in a large cage in a room free from draughts.

The cage was first well disinfected with carbolic acid, floor covered with coarse sand and a top dressing of fine straw. Grit, oyster shells and charcoal were placed before them, together with fresh water once per day. With the sick fowls one healthy Langshan pullet was placed in order to see if she would contract the disease after coming in actual contact with them. Below are names of breed, weight when first isolated and when released:

	Weight when isolated.	Weight when released.
Indian Game cockerel.....	6.2	6.6
Black Langshan pullet.....	5.1	5.4
White Wyandotte pullet.....	4.8	5.
Healthy Langshan pullet.....	5.8	5.12

No medicine was given during the fourteen days of confinement. Their roosting quarters were near an

open door facing the west, consequently there is no doubt but that the cold night air, blowing directly on them, was the cause of the disease. When first noticed, their eyes were full of bubbles, which is seen so often by poultrymen, and at their nostrils was a slimy, offensive discharge, with an apparent dead appearance of feathers, and an inclination to stand quietly in warm corners during the day.

Their feed during the above period was the usual morning mash, composed of one-third each (by bulk) corn meal, wheat bran and middlings. For evening feed, corn, oats, ground bone and wheat were given alternately. A tuft of green grass was thrown in cage daily.

December 24. The eyes of each one were free from any foreign matter, but discharge at nostrils was still apparent, but of less quantity.

December 28. Discharging at nostrils still less, and odor noticed but little.

December 31. All discharges had ceased, and their health seemed as perfect as could be, hence they were released.

The healthy pullet that was placed in the cage was allowed to remain until January 15, 1898, to determine if she would contract the disease from eating and drinking from the same vessels that were used by the affected fowls. She remained in perfect health and began laying on January 12.

From above facts, there is no doubt that the colds which had developed into mild cases of roup were caused by roosting where the chilly night air was continually upon them. We do not recommend giving no medicines in cases as above, but simply tried it to note results, and are satisfied that if the fowls are placed in positions not exposed to draughts, that the disease is not necessarily contagious. Previous experiments made by the writer, in 1891 and 1892, fully convinced him of the foregoing. There can be little doubt but that if a laxative had been given the three subjects when first isolated, and nostrils had been cleansed daily, their period of confinement would have been decreased by several days.—F. E. HEGE, North Carolina Agricultural Experiment Station Bulletin.

INCUBATORS AND BROODERS.

BY FRED B. COCHRAN.

So much has been said and written about artificial incubation in the last generation, that it would seem to the casual observer that very little, if anything, remained to be said on this infatuating, perplexing, but seemingly never solved problem, and yet it is probable, that six men (or women either) could not be found who were capable of sitting down and intelligently discussing this question both from a scientific and practical standpoint; probably the only fact that would be agreed upon would be, that in order to incubate it is necessary to supply heat, but when the determination of the kind of heat, or even the degree, was reached, many and diversified would be the kinds, or degrees, advocated; hot water, hot air, electric, and the heat produced by decaying vegetable matter, all have their advocates, and yet I have been able to hatch equally well with all kinds. So too, as to the different methods of regulation, ventilation, construction, manipulation and the dozen and one other parts that go to make up the grand whole.

Construct an incubator that shall possess the best points of all the incubators there are on the market to-

day, place such a machine in the hands of a novice, and unless that person possesses good judgment and is blessed with an equanimity unmoved by surrounding difficulties, he or she is almost sure to make a failure of it at the start and abuse the maker of the machine; though I have seen many a hot-headed person cool down and afterward make a decided success as a hatcher.

I have read many reasons given by incubator manufacturers why people did not succeed with their incubators; but the only persons I ever found who could not succeed were nervous people, and such people never ought to take up poultry culture as a business. What the business requires is people so blessed with tranquility that "no wave of trouble (can) ever roll across (their) peaceful breast," and possessing enough of intellect and this world's goods, as to be able to devote a part, at least, of their time to a solution of some of the knotty questions that now confront us.

In speaking about artificial incubation, I have no bone to pick with any of the incubator manufacturers. They have all come into the field since I first started with Prof. Samuels on the old Eclipse Incubator and most of them are mere boys, when years of service are considered. I have seen hundreds of different makes of incubators appear and disappear since I first began, and it is my candid opinion it will be but a short time before all those now on the market will be numbered with the dead. I am unable to find one that possesses lasting merits.

There seems to be some hidden mystery in nature which our closest researches in this line have as yet failed to reveal, but I believe we are approaching nearer and nearer to it every year, and it is with the hope of stimulating investigation into this problem, that I shall tell the readers of THE FEATHER what I have accomplished thus far.

(To be continued.)

THE SCIENCE AND PRACTICE OF POULTRY FEEDING.—V.

Uses of the Different Constituents of the Food—Composition of Mixed Rations.

BY DR. D. E. SALMON.

The proximate constituents of feeding stuffs having been enumerated and the proportion specified in which these constituents exist in each article, it is important to learn the use to which they are put in the animal economy. There are two principal uses for food in the interior of the body; one of these is to form and increase the materials of which the body is composed and to repair the wear and wastes, the other is to furnish energy either in the form of heat to maintain the temperature of the body or as force exerted in the movements of the animal or of its various organs.

The body is constructed and repaired from the protein of the food, which, after being used for this purpose, may be chemically decomposed and oxidized or transformed into fats and carbohydrates. The protein is essential for building up the tissues, and its place can not be filled by any of the other elements. The fats and carbohydrates are oxidized, or, we might say, burned for the production of heat and power. A considerable quantity of fuel of this kind is required to maintain the heat of the animal body at a point favorable to the life and well-being of the individual. Still more is needed to produce the power used by the constantly beating heart, the industrious digestive organs,

the moving limbs and the activities of other organs. The surplus carbohydrates may be transformed into fat, and the surplus fat may be stored up in the body ready for use when it is needed.

The protein compounds are, therefore, used both for the building and repair of the body, and the production of heat and force. The carbohydrates and fats can not be used for the building and repair of the tissues, but only for the production of heat and force. There is consequently a natural division between the protein bodies on the one hand, and the carbohydrates and fats on the other.

In the formation of rations, the proportion which the protein bears to the carbohydrates and fats is called the *nutritive ratio*. As a given weight of fat produces, during combustion, more than two and one-fourth times as much heat as is produced by the same weight of carbohydrates, it is necessary to multiply the weight of the fats by 2.3 before adding to the carbohydrates.

The ash or mineral matter contained in feeding stuffs supplies the mineral matter for the blood, muscles, bone and all other parts of the body, and for the egg-shells. It is common to neglect the mineral matter in combining different articles of food to form rations for quadrupeds, but with young and growing animals, it should receive attention, and with laying hens, it is especially important on account of the relatively large quantity required for the formation of the eggs.

Animals will not thrive for any considerable time, if fed exclusively upon any one of the constituents of the food. A combination of these constituents is necessary for health and vigor. In the same way, it is found that a single article of food, as, for instance, corn or oats alone, is not as beneficial as a mixture of a number of articles. It appears from observation, therefore, that there are few articles of food in which the constituents exist in just the proper proportion to give the best results. Some contain too much protein, some too much of the carbohydrates, some too much fat, some are too bulky. On the other hand it is evident that some may be deficient in any one of these constituents, or may even be too concentrated.

For these reasons, different articles of food are mixed in the daily or weekly rations, in order that one variety may supply the deficiencies of another. By a judicious selection of the ingredients there is obtained in this way what is known as a *properly balanced ration*. But, it is found that what is a properly balanced ration for a young and rapidly growing animal is not the best ration for animals under other conditions. It is, therefore, necessary to determine experimentally what is the best ration for young chicks, what is best for fattening fowls, what is best for egg-laying hens, etc.

These problems have not yet been worked out for the poultry feeder by scientific men. Much data has been accumulated in regard to the feeding of the larger domestic animals, but those engaged in the poultry industry must still experiment for themselves. To do this intelligently, the composition and nutritive ratio of the rations used must be calculated from the table.* It is, also, found that an occasional change of ration is beneficial, even when the composition appears to be approximately the same. There is, consequently, frequent necessity for calculating new rations, not only to use to the best advantage articles which may be on hand or which may furnish the nutritive constituents at the lowest price, but to maintain the appetite, digestion and health in the best condition.

In order to illustrate how the nutritive ratio is calculated, we will select dent corn, the composition of which is found in the table to be protein 10.3, carbo-

hydrates 70.4, fat 5.0. Multiplying the amount of fat by the heat equivalent as compared with carbohydrates (2.3) we have: $5.0 \times 2.3 = 11.5$, which is the value of the fat in carbohydrates. Adding this figure to the carbohydrates gives us: $11.5 + 70.4 = 81.9$, as the sum of fats and carbohydrates. To get the nutritive ratio this sum is divided by the figure for the protein, thus: $81.9 \div 10.3 = 7.9$. Therefore, the nutritive ratio is expressed as 1:7.9, which means that there is one part of protein to 7.9 parts of carbohydrates and fats.

The table of composition is expressed in percentages, therefore, in 100 lbs. of dent corn there are 10.3 lbs. of protein, 70.4 lbs. of carbohydrates, and 5 lbs. of fats. If, now, it is desired to use 5 lbs. of dent corn in a ration, it becomes necessary to learn how much of each of these constituents is present in that quantity of corn. This may be easily calculated by dividing the percentages given in the table by 100 and multiplying the resulting quotient by the number of pounds. Thus, 5 lbs. of dent corn contains:

	In 100 pounds.	In 5 pounds.
Protein,	$10.3 \div 100 \times 5 = 0.51$	
Carbohydrates,	$70.4 \div 100 \times 5 = 3.52$	
Fats,	$5.0 \div 100 \times 5 = 0.25$	

This rule can, of course, be applied to any article which is found in the table and of which it is desired to make use in compounding the ration.

To illustrate more fully, suppose the question is to ascertain the composition and nutritive ratio of a poultry food made by mixing 10 lbs. of corn meal with 10 lbs. of wheat bran. It is found from the table that corn meal contains 9.2 protein, 68.7 carbohydrates and 3.8 fat; and that wheat bran contains 15.4 protein, 53.9 carbohydrates and 4.0 fat. The ration, therefore, would contain:

	Protein.	Carbo- hydrates.	Fat.	Nutritive Ratio.
10 lbs. corn meal,	.92	6.87	0.38	
10 " wheat bran,	1.54	5.39	0.40	
20 " mixture,	2.46	12.26	0.78	1:5.7

The composition and nutritive ratio of rations containing any number of articles and in any quantity may be computed by the same method. The object in this chapter is, however, only to explain the use of the table of composition in learning the constituents of mixed rations, and the ratio which the flesh-forming elements bear to the heat producers. In subsequent articles various rations used in practical operations of successful poultrymen will be taken up and discussed from this point of view.

A Sad Loss.

It is with regret that we announce the death of H. D. Mason, who died at Fabius, N. Y., on December 5, 1898, of neuralgia of the heart. Mr. Mason is known to the readers of THE FEATHER as a breeder of Golden Wyandottes, and his loss will be sorely felt by all who knew him personally or had business relations with him. He was the senior member of the firm of H. D. Mason & Sons. He has bred fowls for many years, but latterly had made a specialty of Golden Wyandottes. His success with these is well known and his strain is in some of the best yards in the country. The fraternity has met with a great loss in his death, and we tender our sincere sympathy to his family in their bereavement.

* See THE FEATHER for December, 1898.

The Feather, Washington, D. C.

Published the 15th of each Month by
GEORGE E. HOWARD & CO.

Subscription 50 cents a Year in Advance.
Foreign Subscriptions, 75c a year in Advance.
Single Copies 5 cents.

GEORGE E. HOWARD, Editor.

All matter intended for publication should reach us by the first of the month preceding the issue in which the same is to appear.

Write your name in full, giving full post office address plainly, so there will be no mistakes.

When writing for publication use only one side of paper. Brevity is the soul of wit.

Advertising in The Feather.

The Feather now offers the best and cheapest advertising in the country. Its circulation has increased more than one hundred per cent. during the last year. Its advertising rates are lower than those of any other journal of equal standing and circulation.

The Feather reaches the people that transact the poultry and pigeon business of the country. Its publishers have made a special effort to include among its readers all the most successful and most enterprising fanciers. Advertisers are often astonished by the large amount of business which comes to them after running their card a few months. There is no other medium which reaches so large a proportion of readers in all sections of the country who are able and willing to buy when they learn who are offering the stock or supplies which they need.

Net Advertising Rates.

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2 "	2 86	7 50	13 80	23 50
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All other bills are payable quarterly after the first insertion for the quarter.

Five per cent. discount will be allowed on bills of over five dollars which are paid in advance.

No advertisement will be inserted at any price from persons who are not responsible or who fail to deal honestly with their patrons. We particularly request our readers to notify us of any advertisers whom they believe to be dishonest or fraudulent. Honest advertisers will be protected—dishonest ones will be denounced.

New advertisements must be received not later than the 1st of the month. Copy for change of advertisement must be received not later than the 25th of the month preceding.

Remittances should be made by postal money order, registered letter, bank draft, or express money order.

All remittances should be made payable to

GEORGE E. HOWARD & CO.,
504 11th Street, Northwest,
Washington, D. C.

Entered at the Post Office at Washington, D. C. as second-class matter.

JANUARY, 1899.

ADVERTISERS must have copy in for change of advertisement not later than the 25th of the month preceding. Copy for new ads must be received by the 1st of the month to insure insertion.

The New Season. This is the New Year; the opening of the season of '99 for all poultrymen. A better outlook for the sale of fine poultry and eggs has not been in many years. It is a season of prosperity; the work-shops of our land are in full operation, and money is freer and more plentiful than it has been for a long time. Many thousands of dollars will be spent for fowls and eggs in the next few months, and the active, progressive, and up-to-

date advertiser will reap a rich reward. It is only such that can hope for success. The idle man has no show whatever in the great business rush of these days. Advertising is the only direct and immediate way the breeder has for disposing of his goods, it is his only alternative, he must advertise or else close business. The columns of THE FEATHER have proven to be one of the very best mediums for advertising that are at the disposal of poultrymen. The best results have been attained in the past by our patrons, and their continuance with us is conclusive evidence of this fact. The readers of THE FEATHER are a class of buyers of good stock, and know good bargains when offered. Our circulation warrants us in saying that our rates are the lowest that can possibly be had for the service rendered, and an ad placed in THE FEATHER never fails to pay the advertiser. Beginning with this month, and continuing during the spring months, our editions will exceed our large circulation many thousands, and this should result in much good to our patrons. Copy for new advertisements should reach us not later than the first of each month to insure insertion, and copy for change of ads must reach our office not later than the twenty-fifth of the preceding month to insure insertion in the next month's paper. These rules are imperative, and much as we would like to accommodate our advertisers, we feel that we can not do so if our request is not complied with.

A Business Proposition. The egg-season is at hand, and every indication points to an active trade in both stock and eggs. We desire that everyone who has stock or eggs for sale should try the advertising columns of THE FEATHER. As an inducement, we will give a thirty-word classified advertisement three times and a year's subscription to THE FEATHER, for one dollar. This offer is only good on orders received up to February fifteenth. Advantage should be taken of this generous offer by all who have stock or eggs for sale before it expires.

The Washington Show.

As we go to press the Washington show is in full swing. The exhibition is one of the largest displays of poultry ever held here, and the quality is of the best. There are quite a number of visiting fanciers in attendance, and all things considered it might reasonably be termed a success in every particular. A full report of the show will be given in the February number together with a complete list of awards.

A Pleasing Picture.

Our Light Brahma supplement, which accompanies this number, is the second of the series which will be run regularly in THE FEATHER during the coming year. This painting is life-like and can not fail to be appreciated by our readers, as a true and artistic representation of a noble breed of fowls. The scene is a pretty one and makes a most attractive picture for the homes of all poultrymen.

A Great Show Season.

January is a great show month. The five greatest shows of the season are being held this month at Washington,

Chicago, Toronto, Boston, and New York. These events will do much for the general good of the industry and their influence will be felt long afterwards. The show-room does more than any other agency to promote and keep alive the interest in poultry raising. All shows have their following, and good results follow closely in the wake of each event, whether large or small. This has been a great year for shows, and success has followed all since the opening at Mt. Gretna down to the close at New York.

Avert The Mistakes. Ere long the breeding season will be with us, and each and every one should be fully prepared to meet it. Many mistakes were, no doubt, made last year which cost dear, besides a whole season's lost time. These should be averted by giving careful forethought to the work, and going more fully into the details essential to success. The breeding stock should be carefully selected, and the matings should be the very best. Good, healthy stock should be alone used; all sick, weak, or debilitated birds should be discarded. Pure, wholesome food should be used, and the greatest care should be taken that the birds have that which is best suited to them. Plenty of green foods, meats, or animal meal, will help insure the fertility of the eggs. Fresh water and clean houses, together with liberal range, will add to the situation wonderfully. Nothing should be neglected about the premises, and the work should be entered into with enthusiasm, pluck, and energy. The harvest will be reaped later on, and instead of failure you will find a bright and happy reward.

The Thief Is Caught.

For some time past we have had complaints from parties sending us remittances for subscriptions and advertisements, which never reached our office. The Post Office Department was notified, and we are pleased to say, that though their diligent efforts the thief, a letter carrier, has been caught, and is now safely in the hands of the authorities. It has been considerable annoyance to us, and our business has been greatly interfered with by the doings of this man. But we now feel much relieved, and look forward to his early conviction for his miserable work. The way of the transgressor is hard.

To New Subscribers. We are offering a choice list of premiums to new subscribers in this number, besides a selected list of combinations at one-half their value. Those intending to subscribe for a poultry publication will do well to note the many inducements we offer in conjunction with THE FEATHER.

A Good Beginning.

Editor The Feather:

We are more than pleased at the results from our 1-inch ad in October number of your journal. Within the last week (seven days from the day THE FEATHER was issued) we have received more than twenty orders for 50c packages of "Ovamead" from parties who saw ad in THE FEATHER. You can double the size of our ad in November number (as per copy) and put us down as a regular advertiser.

Yours truly,
OVAMEAD MANUFACTURING CO.,
Rochester, N. Y.

Practical Poultry Raising

FOR THE
EXPERT.....
AND BEGINNER...

Chicks—Regulators.

Editor The Feather:

The time is fast approaching when we will have to prepare for the hatching season, and for the benefit of your readers I will give you my style of houses, yards, feeding and caring for the hen and her brood. There are just two conditions that we must consider: First, an open lot of ground, and second, an enclosure with close fencing; and to make this article perfectly plain I will divide this part into two divisions, first, the open lot (see Fig. 1); you will have to make the bottom board 12 inches so that it will be a protection to the little chicks on a very stormy day, and with two sides 36 inches wide and 10 feet long with the partition A (Fig. 2) in the center, the top or cover to run or yard should be made of 3x1 inch stuff and there should be three parts; the ends should be 4 feet long and 2 feet wide outside measurement, and the center one should be 2 feet square, so that by taking it off you can reach both yards with the partition A (Fig. 2) in its place, and leave food and water for both hens, one in each house; second, in the close yard, where you have plenty of fencing of boards, you can build the houses and yards against the fence, and will only need one side to the yard, and the dimensions and sizes in Fig. 1, fit those conditions.

The houses are 3 feet high in front, 2 feet in the back, 2 feet long and 2 feet wide; that will make them 2 feet square on the ground, and plenty of room in the house for the nest. Cover the roof with good, thick tar paper. Cut the hole in the front of house near the front end of the yard. Cut the door on the same side as the hole. You will find that to be a good feature and save you trouble. Then fill the floor 2 inches above the ground outside, scoop out the ground in the side farthest from the door, place some cut straw in the nest, also a few china eggs, a doorknob will

do just as well; then dust the nest well with fine tobacco dust, which you can procure from any cigar factory.

Now that the house is finished, the nest made, and the fence is up, dig up the yard, pulverize the ground, and sod it with good clover sod. Now take the hens, three of them, and dust them well with Lambert's "Death to Lice," and place two of them, one in each house, and the third hen in a box in an out-house or shed. Let them sit for two days, to see if they are broody. If so, take out the china eggs or doorknobs and place your eggs from thoroughbreds under the hens. Of course, you would not go to all this trouble for scrub eggs worth fifteen cents, and after the chicks were hatched they would be worth only ten cents. Then put food and water at both ends of the yard and leave them to attend to their business. On the seventh or tenth night after the hens were set, test out all those of the nest of eggs and give all the fertile eggs to the two hens in the small houses and reset the spare hen, or pair her off with two more hens and let her be one of them to bring out her brood providing she is a good sitter. If not, break her up, but always remember that thirteen eggs under an ordinary-sized hen and fifteen to seventeen under a large hen will not always be the best. The weather must be taken under consideration. If it is very cold from nine to eleven for a small hen and eleven to thirteen under a large hen will give better results, and if the weather is cold and damp you must remove the hen yourself and place a thick pad of cotton batting about six inches thick and large enough to cover the nest, first warming it in the oven.

Three days before the hens hatch out dust them well with "Death to Lice," and after they hatch out remove all pieces of shell, straw, etc., and clean the house out well, then place some new straw in the house, and after the lapse of twenty-four hours you can commence to

feed them, but not before as they do not require it.

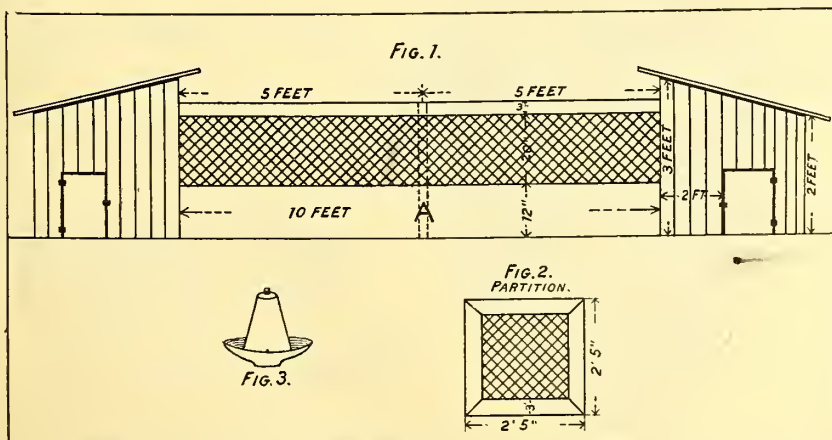
For the first three weeks feed the following mixture: Boil three pints of milk, add one pound of ground meat and cornmeal to make a stiff dough with four to six eggs, well beaten, and seasoned with salt and soda to make it light; place this in the oven and bake until it is well done. Of this mixture feed three times a day, the first, third and fifth feeds, and moisten with sweet milk; the second and fourth feed should be either boiled rice or boiled barley or pinhead oatmeal. Scatter millet seed and clover seed for them to scratch for.

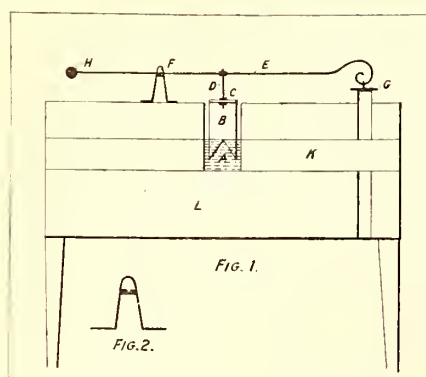
Clean water should be given them twice each day and as this is the most important point, I will tell you how I make my drinking fountains. An empty tomato can with a hole $\frac{1}{4}$ inch in diameter in the side and about $\frac{3}{8}$ inch from the open end and a saucer, are all that is required. Fill the can full of water, place the saucer over it, and turn it upside down and the trick is done. A flower-pot will answer the same purpose; put a cork in the hole in the bottom, take an old saw and make a slit in the mouth of it about $\frac{3}{8}$ inch long, fill it the same way, and it will do just as well, only remember not to make the slit too long or it will empty itself if the slit is above the edge of the saucer, (see Fig. 3.) Be very careful with the drinking water as it is one of the most important points. Fresh water and plenty of it, in clean fountains, with good, wholesome food given to them on clean boards, will make them grow. Boil milk and give them some every day, but don't let it stand in their dishes.

After they are three weeks old feed the corn-bread once or twice a day with wheat, pinhead oatmeal, cracked corn and barley, mixed. Give them this feed until they are six weeks old, and after they are six weeks old feed wheat, cracked corn, cut green bone, ground meat (cooked), vegetables, cooked and raw, and feed them in chaff, so as to make them scratch and exercise, and always keep the chicks away from the old fowls, so that they will get their food. Should they get the gapes, take equal parts of turpentine and linseed oil, put it in a bottle, shake well, put four or five drops in a small spoon, open the chick's mouth and pour it down the little hole at the root of the tongue. At the same time you pour the medicine down the windpipe, gently press the finger on the lower part of the neck or windpipe and that will do the business for the gape worm; but after two or three days should it gape repeat the dose, but if properly done you will hardly have to do this. Should you not thoroughly understand me, I will cheerfully answer any questions you may ask.

A REGULATOR THAT WILL REGULATE.

I have read so much in the different poultry papers about thermostatic bars for regulating the heat in the egg-chamber of incubators, and also complaints of the users of the incubators that they failed to work, I thought I would try one on an incubator that I have (I exchanged a hot-water incubator for a hot-air incubator, and I don't know who got the best of it). I gave the incubator with a thermostatic bar a trial of one week, and during that time the best I could do was to regulate it between 100 and 108, and that was done with the flame of the lamp and not with the regulator bar. Finding the regulator a





failure, I thought I would make one for myself and use the expansion of water to do the regulating for me.

Fig. 1, is the regulator on top of the incubator, and Fig. 2, is an end view of the pivot stand showing the cross bar in place with the pivot hole to balance the regulating rod on. Fig. 1, A, is a tube $2\frac{1}{4}$ inches inside diameter, and 5 inches deep, with a flange on top $3\frac{1}{2}$ inches in diameter, with three screws to fasten it down to the top of the incubator, and it must be water tight. B, is a smaller tube 2 inches in diameter and 3 inches deep, with the bottom an inverted cone, as I found that bottom to answer the purpose the best. C, is a cross bar across B with a hole in the center for D, the bolt, to pass through and fasten to the cross bar tight with a nut on both sides. D, is a wire bolt to connect C and E together; I use No. 12 wire, 5 inches long with a thread on both ends and also use nuts made of thick leather. E, is the regulator bar and is made of 3-16 inch round steel about 30 inches long. The regulator bar must be of some strong material so that it will be stiff and will not bend. It pivots on F with a lead ball H, with a hole through it, so that it can be moved backward and forward as the occasion may require, and as water is added to the tube A. G is a plate on the end of E to let the hot air escape from the chamber K, so that the temperature will gradually fall in the egg-chamber L. F, is the pivot stand and can be made out of sheet brass $\frac{1}{2}$ inch wide by bending it the required height (as in Fig. 2), about 9 inches long; 10 inches will do as well, but will not be as stiff. 1 inch from the top run a piece across $\frac{1}{2}$ inch wide, make a notch in the center of it with a round file and solder it in its place. Then put the pivot stand in its place, in a direct line with the center of the escape pipe R and the center of tube A. The distance is about 6 inches from the center of A. Then screw it down with one screw on each side. H, is a lead ball, weight about 4 ounces, with a 3-16 hole through its center, to be moved backward or forward so as to put the regulator on a balance.

I did not write this article to show the incubator, but to give the sizes and mode of manufacturing a regulator that will fit on any old incubator, and it will regulate. E, on my incubator, is about 30 inches long, but that will have to be made to fit the incubator. D, is fastened on to E by simply bending a piece of tin, $\frac{1}{2}$ inch wide and 1 inch long with a hole in each end, around E and pass the bolt, D, through them and set up on the nuts, top and bottom to fasten it tight on to rod E. After the regulator is made and is all together, put some water

in tank A, then put the rest of the regulator in and rest rod E on the pivot F, and move H up so that the regulator will balance and the plate G will move off of the tube R. Start the lamp and as the temperature goes up move the weight H in until the thermometer stands at 103 degrees; then regulate H, so that G will be just off of R. Try and regulate the flame of the lamp to keep it at 103. It will be necessary, from time to time, to add a little water to tank or tube A, as the water evaporates. I have not patented this great creation and your readers are welcome to the use of the regulator.

E. D. CROUCH.

Something About Colds.

Editor The Feather:

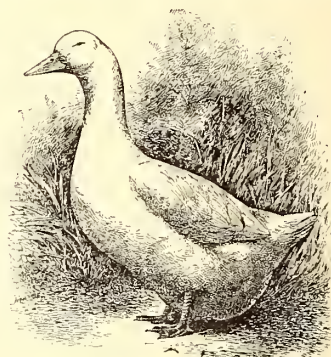
I think about the worst thing poultrymen have to contend with is colds. Some say that lice are the worst thing but I do not agree with this class. I had rather wrestle with lice two to one than with a case of cold in the head. Young chicks are almost always sure to contract this trouble in the fall of the year when sudden changes in the weather are frequent.

This fall I have been experimenting somewhat with this trouble (colds in chicks) and by these experiments have proved to my satisfaction that some of the so-called pet theories are at fault. I have especially demonstrated that common colds will not develop into roup as a great many claim, but that if a fowl has the roup it comes entirely from contagion. I have had some of the worst cases of cold this season to deal with I have ever had and I have placed those afflicted with those that were well to see if they would also take the disease, but they did not. I have also taken the worse cases and put them into places where the conditions were worse and did nothing for them in the way of giving them medicine and have not had any roup from this experiment. Others put under better conditions and gave

coal oil in their drinking water, about a tablespoonful to a quart of drinking water, but failed to discover any improvement in their condition. Every time I went into the coop I could hear sneezing and snuffing.

Another class I gave better conditions but gave no medicine or treatment in any way and they did fully as well as did those I treated and came out just as well in the end. Finally after trying

ATLANTIC FARM.



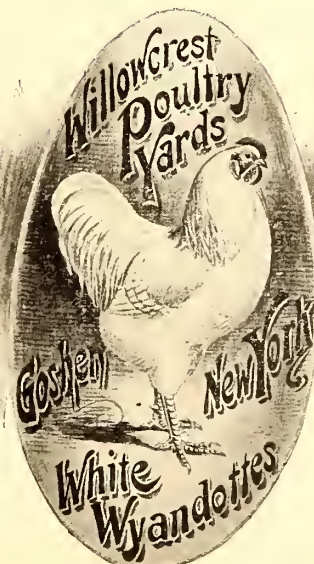
Hallock's Pekins

Are among the first on the market, are sought for by the trade, command the highest prices and give the best of satisfaction in every way. And in the show room it's the same story. The proof is the long string of blue ribbons they've won at New York, Boston, Washington, D.C., and other shows. Breeders are now ready for delivery at reasonable prices. A free booklet gives the particulars. Address,

A. J. HALLOCK,

Box F, Speonk, L. I., N. Y.

WHITE WYANDOTTES.



200 COCKERELS,

—AT—

\$2 AND \$3 EACH.

BUY THEM AT

...HEADQUARTERS...

THE HOME OF THE

WHITE WYANDOTTE

...WILLOWCREST POULTRY YARDS...

GOSHEN, N. Y.

everything ever recommended for colds and even roup and they did not get better, I made up my mind there was something wrong. I discovered the trouble after a while. Previous to this, and through all my various experiments they had been cuddling together as chicks always do, just as long as they are allowed to do so. So I separated them and made them roost and single out, and gave them good care and a good tight house so no draughts could touch them, and they at once began to improve and finally got entirely well. Therefore, I reasoned that by packing together at night they perspired and when they got up in the morning they were chilled by the sudden change and contracted cold. I am now convinced that the best way is to teach chicks to roost early, care being taken to give them a good, wide board to roost on until they are fully developed, and thus avoid crooked breasts, etc.—HENRY TRAFFORD.

Buff Orpingtons.

Editor The Feather:

Buff Orpingtons originated in England. Their surface color is of a more even shade than the Buff P. Rocks; their under color is fairly good, much better in tail and wings than the Buff Rocks; better in shape and more stylish, being larger and finer in appearance. Cocks often weigh from ten to ten and one-half pounds with nice, low, straight combs, solid red ear-lobes and fine wattles, broad breasts, and very broad over the back, symmetry fine. Males have thick, stout legs, being of a glossy white. Hens weigh from seven to seven and one-half and eight pounds. Very low straight combs. Their heads are as red as a turkey gobbler's while laying.

I have never owned any Leghorns, but never saw any that beat Buff Orpingtons as yearly layers. I imported a pen last April from England. They reached me on the 28th of April and laid the day of their arrival. They are the greatest egg producers I ever owned. I hatched seventy-six of their chicks and raised seventy-two. They are more hardy than any breed I know of, and, I must say, the fastest growers, and they feather up quickly. Nothing seems to hurt them. They are great foragers, and not subject to disease. My hens have laid all through their molt and that is a rare thing, for you seldom hear of hens laying while in molt, though mine are laying at this writing. Pullets were hatched the 12th day of June, and have laid for some time past. Buff Orpingtons are very handsome fowls. All who see them fall in love with them on account of their great beauty and fine appearance. I have tried to write a plain, simple description of the Buff Orpingtons and have not exaggerated. They are worthy of all that can be said of them, not only for their great beauty but as a general-purpose fowl, and for their great laying qualities. They are really what you may call regular laying machines. Several Buff Orpington pullets on the nests are laying while I am writing.—JAMES A. WARNE.

Shows and Associations.

From Mr. Crawford, secretary of the great New York show, comes the promise of the most extensive display ever cooped in the Garden. This is the exclusive poultry and pigeon show of New York City; none others in the land like it. Every one comes to New York to

witness the general wind-up of the year and to see the finest display, cooped in the finest building in the world.

Here will be held the annual meeting of many of the specialty clubs and the great gathering of all the fanciers for good fellowship. No place like New York for a poultry show; all brought about by the genial management in their kind treatment of all. Every class will be judged by the very best experts on the breeds they handle and the fairest treatment is assured to all. Go and take your best; see, and be seen by more fanciers and people than at any other show in our land.

All who are interested should write at once to H. V. Crawford, secretary, Montclair, N. J., for a premium list and make their entries as early as possible and avoid the chance of being unable to show for need of room in the building. No crowding is allowed. When all cooping room is engaged entries must be declined.

The offering in regular and special prizes at New York is very large, enabling the fortunate ones not only to gain reputation of value but also returns in cash, and nowhere are the chances of sales better than at New York. Many specimens are sold here each year at good prices, and there is also a demand for good breeding stock.

The poultry fanciers in and about Coatesville, Pa., made their maiden effort by holding a show, from November 15-19. Over a thousand birds were cooped in the open classes. Many classes were well filled, the most prominent being the Brown Leghorn and Wyandotte classes. The display in these varieties alone would equal many of our older established shows. Quality and quantity were prominently represented. Many of the specimens were such as would adorn a New York or Washington exhibition.

Among the fanciers of this section are many ladies, whose ability in breeding poultry was shown in winners of merit which they placed on exhibition. Some of these ladies fill positions on the Executive Board. One of the lady fanciers distinguished herself in checking each entry as placed in its coop, and to her credit, not an error occurred.

The Asiatic classes, other than Brah-

mas, were very fine. About all the awards went to Mr. J. D. Nevius, Mr. Norris Temple, and Mr. Chas. Townsend. No catalogue was printed; therefore the owners of fowls at this show can only be known from the list of awards.

Special mention should be made of a few of the classes, namely, the Brown Leghorns shown by Mr. J. H. Scherer, of Coatesville; the Hamburgs, by M. B. Megargey, Coatesville; and the splendid display of Mr. Temple, of Pocopson, Pa. Mr. Temple is the president of the State Poultry Association and an ardent fancier. Mr. Charles Cornman, of Carlisle, Pa., as usual, swept the deck with his varieties.

Advertise in THE FEATHER.

"Buff" "Buff" "Buff"

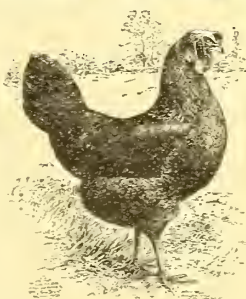
There's this about it: I will send you a good Buff Wyandotte or Buff Plymouth Rock cockerel for \$5, can not be beat for the price. Write.

WM. C. KLEE,
278 Meigs Street,
Rochester, N. Y.

MORE THAN A SCORE OF SHOWS WON

During the past season by customers of

BRIGHT'S BROWN LEGHORNS BARRED P. ROCKS



THESE honors, with those won at America's Greatest Show, Boston, 1898, including six firsts and all the collection and grand specials, is convincing evidence that this stock has no superior. My birds this year show the results of one more year of careful mating and are the best I ever owned. They are strong all-around show birds and breeders. The better you know them the better they will please you.

The Best Breeding
Stock I Ever Had For Sale.
Exhibition Birds for the
December Shows....

GROVE HILL POULTRY YARDS,

A. C. SMITH, Superintendent,

Box 411, Waltham, Mass.

W. E. BRIGHT, Prop.

The Lebanon Poultry Yards.

The Lebanon Poultry Yards, situated near Lebanon, Pa., are among the foremost plants of the East. These yards are owned by the popular poultryman, M. B. Blanch, well and favorably known as the superintendent of the Mt. Gretna show. Mr. Blanch has had splendid success with his plant, and has won considerable honors in the show-room since he began exhibiting his birds. He is assisted in his work by an equally as enthusiastic poultryman, Theo. F. Jager, who superintends the Lebanon Yards. Both of these gentlemen, proprietor and superintendent, are earnest in their work and true lovers of fine poultry.

The Lebanon Poultry Yards comprise between fifteen and sixteen acres of land located on a southern slope, with running water. These yards contain some of the best stock to be found anywhere, and only the best blood is used for breeding purposes. The following varieties of waterfowl are bred: Pekin, Rouen, Indian Runner, Aylesbury, Cayuga, Colored and White Muscovy ducks, Toulouse, Embden, Wild, Brown and White Chinese Geese. In chickens they breed: Light Brahmas, Barred and White Plymouth Rocks, Single Comb White Leghorns, Buff, Black, and White Pekin Bantams, B. B. Red Game Bantams, English Pheasants, Black Minorcas and White Wyandottes. The latter two varieties are their specialties, and the breeding yards of these varieties contain the best domestic and imported blood obtainable.

Minorca cockerel; 1st and 2d Black Minorca pullet; 1st S. C. W. Leghorn cock; 1st Silver Laced Wyandotte cock; 2d and 3d Single Comb White Leghorn cockerels; 3d, 4th, and 5th Single Comb White Leghorn pullets; 1st Black Pekin Bantam cock; 1st and 2d Black Pekin Bantam pullets (by purchase); 1st pen B. B. Red Game Bantams (by purchase); 1st Toulouse gander; 1st and 2d Toulouse goose; 1st and 2d old Pekin drake; 1st, 2d, and 3d old Pekin ducks; 1st, 2d, and 3d young Pekin drakes; 3d and 4th young Pekin ducks; 1st young Pekin pen; 1st and 2d old Rouen ducks; 1st and 2d old Rouen drakes; 1st and 2d young Rouen drakes; 1st and 2d young Rouen ducks.

New Jersey State Fair.—2d pair old White Wyandottes; 2d pair young White Wyandottes; 1st pair old Black Minorcas; 1st pair old S. C. W. Leghorns; 1st pair young Pekin ducks; 1st and 2d pair young Rouen ducks.

White Chinese goose, young; 1st Embden gander, young; 1st Embden goose, young; 2d Wild Canadian gander, young; 2d Wild Canadian goose, young; 2d Brown Chinese gander, young; 3d Brown Chinese goose, young.

Elmira Poultry Show.

Arrangements for the third annual exhibition of the Elmira Poultry Association are progressing very favorably



WHITE WYANDOTTES BRED BY LEBANON POULTRY YARDS.



SUPERINTENDENT'S HOUSE, LEBANON POULTRY YARDS.

Besides poultry for show purposes, these yards have an extensive egg and broiler department. This department has paid well and they have developed a flourishing business in fresh eggs and plump broilers. Their laying-house is 244 feet long and is divided into eighteen pens with open sheds attached. They use seven Pineland incubators, and have a 100-foot brooding-house. Their two breeding-houses for ducks are 150 feet long. Their winnings last fall at three shows were as follows:

Mt. Gretna, Pa.—2d and 3d White Rock pullets; 3d and 4th White Rock hen; 1st Light Brahma pen; 1st Black Minorca cock; 1st, 2d, and 3d Black Minorca hen; 1st, 2d, and 3d Black

ducks, young; 2d Col. Muscovy drake, old; 1st Col. Muscovy drake, old; 1st White Muscovy drake, young; 1st White Muscovy duck, young; 1st Cayuga drake, old; 3d Cayuga duck, old; 1st and 2d Cayuga drake, young; 1st and 2d Cayuga duck, young; 2d Rouen drake, old; 1st Rouen duck, old; 1st and 2d Rouen drake, young; 2d and 4th Rouen ducks, young; 1st and 4th Aylesbury drakes, young; 1st Aylesbury duck, young; 1st Aylesbury duck, old; 1st Aylesbury drake, old; 1st Ind. Runner drake, young; 1st Ind. Runner duck, young; 1st Toulouse gander, old; 1st Toulouse goose, old; 1st Toulouse gander, young; 1st Toulouse goose, young; 1st White Chinese gander, young; 1st

Hagerstown, Md.—3d White Wyandotte cock; 1st White Wyandotte hen; 2d White Wyandotte cockerel; 4th White Wyandotte pullet; 3d Barred Rock cock; 3d Barred Rock pullet; 2d Black Minorca cock; 1st and 5th Black Minorca hen; 4th Buff Cochin Bantam cock; 2d Buff Cochin Bantam hen; 1st Buff Cochin Bantam pen; 4th Pekin drake, old; 4th Pekin duck, old; 1st and 3d Pekin drake, young; 1st and 4th Pekin

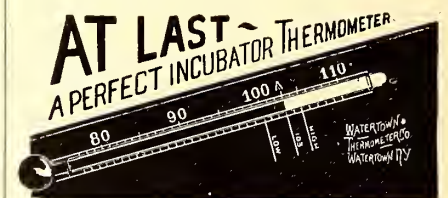
and we expect to have a larger and better show than ever. The business men of our city are aiding us nobly and we will offer a list of specials never before equalled by any association. Each and every class will be offered cash specials, as well as many others of some kind, in addition to the regular cash premiums, and all of the best-known classes will have silver cups. Premium lists are now ready and can be had by dropping a postal card to

E. W. ANDREWS, Sec'y,
Elmira, N. Y.

BEST OFFER TAKES THEM.

Two 600-egg Monarch Incubators in fine condition. Do not need them. A fine chance for someone.

Mt. Vernon Poultry Farm, Reading, Mass.

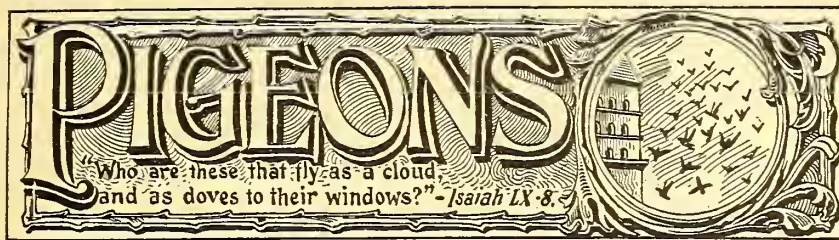


PERFECTIONS: A broad, magnified mercury column. Easy to read, even in dim light. Its shape—admits of reading the temperature without opening egg tray. Bulb rests on two eggs, thus insuring the correct temperature. Gives proper pitch to tube. Costs no more than an inferior one. By mail—one, 75c., three, \$1.50.

WATERTOWN THERMOMETER CO.,

No. 58 Newell St.,

Watertown, N. Y.



CONDUCTED BY J. C. LONG, NEW YORK CITY.

More Unfamiliar Pigeons.

In addition to the varieties of pigeons which I have termed unfamiliar, in a previous number of *THE FEATHER*, I might name several others, among them the Swift, the Brunswick, the Quaker and the Mookie. Although the Swift is said to have been well known and cultivated in Asiatic countries, and bred to some extent in England, I do not remember ever to have seen or heard of a specimen being brought to America, consequently my knowledge of them at least is confined to descriptions given of them by other writers, and what I write of them here must necessarily be the testimony of others. I have, therefore, called to my aid that distinguished authority Mr. Lewis Wright, of England, who says in his "Book of Pigeons": "The first birds of the kind I remember were a pair of bronzy birds exhibited at Bingley Hall, Birmingham, about the year 1862. But two years subsequently a goodly number of them were brought from Egypt direct to Birmingham by a colored sailor, a steward on one of the Mediterranean line of steamers, who procured them for a Mr. John Morris, of Birmingham, who shortly after disposed of them to Mr. H. P. Caridia, also of Birmingham, in whose cote I saw them. The lot were eventually sold for small sums, distributed about, and soon became occupants of the show-pen, created a temporary sensation, scored many victories, increased greatly in favor, had their day, and departed; leaving but very few thoroughbred issue behind them." From this it is natural to infer that they lacked some of the qualities that make such old favorites as the Magpie, the Jacobin, and others of their class still prized and admired.

Mr. Wright further says of them: "Swifts are of various colors, Blues, Chequers, Almond-feathered, Light and Dark-mottled, and others with a chocolate-colored body with a yellowish cast thereon. The head being dark with neck of a yellowish-buff tint. Their head is small and round; eye large, and of a cloudy and misty yellowish admixture conspicuous by its dinginess; eye-cere small, flesh-colored, and circular; beak short and thick, and wart thereon of moderate size; body long and low; feathers loose and very long and inclining downward; legs short and feet small; flights and tail extremely long. The wings are generally crossed over the tail, and although of such extraordinary length, are carried well up and are not mere trailing appendages, when the birds are in health. The most conspicuous features of the breed are the elongated or drawn out body, and the extraordinary growth of all the body feathers and excessive length of flights and tail. Now although the Swift appears a large bird, he is much smaller in actual body weight than he seems to be. The superabundance of feathers

with which he is clothed creates a wrong impression as to size. Although they are termed Swifts they are very slow birds in their movements and in flight their great wings are rather an impediment than, as might be supposed, an additional aid to either speed or even easy aerial locomotion. But although the feathers are long they are loose and open, thin and weak in quill, and, therefore, it is with great difficulty they rise, and almost as much trouble to sustain a fly of short distance or duration, even when fairly in mid air, the atmosphere acting upon their pliable feathers as ribbons in a breeze, so as to greatly retard their progress." He further says: "Swifts are hardy birds, will stand rough usage, thrive in close quarters, and live on any grain, no special food being needed to supply their wants, are hard as nails, and birds of unusual longevity." All of which makes it more surprising that they could not hold a place in some fancier's heart and not pass out of sight altogether. But it is evident they were lacking in some qualities needed to make them popular and so were suffered to die out and live only in name.

A variety little known among American fanciers, and yet beautiful and attractive in every particular, is the Brunswick, a subvariety of the family of Priests and resembling them in many respects. They have the general form, shell crest, nasal tuft, and dark eye of the Priest, are broad in breast, and plump in body, with short neck and muffed or booted legs and feet. They differ from the Priest only in having the whole top of the head including both crests white, and the ten flights of each wing white, upper mandible of beak white, lower dark. These exceptions give it a distinctive character and to my mind rather add to its beauty, and it has always been a matter of wonderment to me that they have not been more generally admired and cultivated, and yet they are seldom heard of in the advertising columns of our specialty magazines and papers, nor seen in the various winter exhibitions, which is convincing evidence that they are almost unknown amongst our fanciers. While they are hardy and as easily raised as the Priest and other pigeons of this class, they are difficult to breed perfect in markings, which probably is one cause of their not being more popular.

The Quaker, although an old variety, is another pigeon seldom met with at this time. They were never very plentiful but still often enough met with twenty years ago to be kept in mind. Now they are, I might say, never seen. As their name would indicate they were a very plain looking bird and yet with features about them that were attractive enough to encourage their breeding. In size they were about that of the Priest, and were of one solid color and

over, except the top of the head which was white down to a line running from the junction of the upper and lower mandibles of the bill, through the center of the eyes and so around the back of the skull, as in the Bald Tumbler. They were usually plain-headed and both plain-legged and grouse-muffed, but the plain-legged were generally preferred. Eyes dark hazel in color, and surrounded by a narrow cere of fine texture. They were of all colors, Black, Blue, Red, Yellow and Chequered, and as they bred very true to color, and were hardy it is strange they have not become more widely disseminated. Philadelphia used to be a great center for them and there are, no doubt, some specimens of the variety still to be found in that locality.

Closely resembling the Quaker in markings and coloring, but varying greatly in other characteristics, is the Mookie, which, as its name indicates, is of East Indian origin. This pigeon has several times been imported to this country, but has never increased in numbers to such an extent as to even make it well known. It differs from the Quaker in being of more slender build, longer on the legs and more upright in carriage. Its tail is carried higher than the generality of pigeons, but closely folded, and it has that feature so prominent in the Fantail, the tremulous motion of the neck, to an exaggerated degree. All pigeons have that characteristic but not in so marked a degree as the Fantail and Mookie. Some years ago, I think it was 1896, quite a number in all the various colors were shown at the New York Poultry and Pigeon exhibition in Madison Square Garden. They were priced at \$6 per pair, and a few pairs were sold, but as I have never seen nor heard of any since, it is reasonable to suppose that they did not thrive and have become extinct as far as the United States is concerned. It is evident that they did not strike the popular fancy or they would not have so soon disappeared from public notice. They appeared to have qualities about them that should have made them a desirable addition to the list of fancy pigeons we already know, but the fancy at large have not recognized them and consequently they are "Nil."—J. C. L.

Properties of the Carrier.

At this season, when the attention of all fanciers is turned toward the exhibitions and the actions and decisions of the judges at such places, an extract from one of the earlier writers on pigeons concerning the "King of Pigeons", the English Carrier, will undoubtedly be of interest to all lovers of pigeons, whether breeders of the Carrier or not. Eaton in his admirable little work says:

"In Moore's day, a Carrier was reckoned to have twelve properties, and all in that small portion of the bird, the head, allowing not a single property to test the Carrier by, as touching length and thinness of neck, length of body and feather, notwithstanding their wonderful symmetry, elegance, and shape, although in former times it was called by the gentlemen of the fancy the "King of Pigeons" for its elegance and sagacity. Moore makes his arrangement of the Carrier's properties—beak, wattle, head, and eye, and Mayor follows with the addition, length and thinness of neck, and length of body. If we added this last property of Mayor's to Moore's twelve we should make thirteen properties in the Carrier, and four or five as

laid down by Mayor. Were I asked to arrange the properties of the Carrier according to their best properties, I should regard length and thinness of neck, length of body, great width of chest, slenderness of girth, standing erect on its legs, etc., after all, as combining only one property, shape or carriage, which I consider the grandest property in a pigeon with few exceptions; viz: in the Pouter, length of leg or limb; the Barb, the eye, etc. At the same time shape and carriage is a grand property in every pigeon. I have heard some fanciers state that there is a difference between shape and carriage. I never heard any one define the difference. I consider shape and carriage synonymous. Second property, the head; third property, the beak; fourth property, the eye; fifth property, the wattle. The properties then should be as follows; viz:

1st, Length and thinness of neck, length of body, great width of chest, slenderness of girth, standing erect on the legs, etc.; 2d, the head; 3d, the beak; 4th, the eye; 5th, the wattle.

Selecting head as second property, which is its length, its narrowness, and its flatness—having an exceedingly narrow even head. Although so desirable, it is certain you will not have a wide, broad beak, which is a fault. 'Tis possible you may have a deep, thick box-beak which is so desirable. Third property, the beak, long, straight, and thick; I can not help thinking that if a bird has these three grand properties, the other two are likely to follow; viz: Eye and wattle. 'Tis certain a bird possessing the first three properties I have laid down came from superior birds. A wag may say anything; therefore it may be as well to put into his mouth a few words what to say—a "Speary Dragon" or a "Skin-um." A good Carrier fancier knows what such a bird as I have been describing comes from, and what it is likely to breed. Fourth property, the eye; broad, round, thick, a rose eye, etc. Fifth property, wattle; broad, short and tilting. To sum up the whole, as a sum of addition, I simply put it to you by rule of subtraction, which property can you subtract from the five properties without greatly injuring the bird? I tell you plainly, you require all the properties in an eminent degree to constitute an extra bird or an A 1 Carrier."

It will be seen that while Eaton does not put it so plainly as a modern writer might, the standard suggested by him is very much as we judge such birds to-day, and judging from the colored plate which accompanies the description of a Carrier in his work, the birds of fifty years ago were fully of as good quality as those we breed to-day. This is one of the varieties that have been but little improved. In this connection it may be of interest to give Moore's account of where the finest of these birds came from. He says:

"The original of these pigeons came from Bazora in Persia; being sometimes brought by shipping, and sometimes in the caravans; hence, by some ignorant people they are called Buffories. This city is situated about two miles distant from a river called Xat Arab, which is formed by the meeting of the two great rivers Tigris and Euphrates; near this place is a small house, like a hermitage, dedicated to Iza ben Mariam; that is, Jesus, the Son of Mary; in passing which place, the Mahometans themselves very devoutly offer up their

prayers. There is likewise a considerable quantity of land, whose revenues belong to this chapel. We come now to give an account of the name which is given to this pigeon, and it is called a Carrier, because it is frequently made use of to carry a letter from one place to another. And such is the admirable cunning or sagacity of this bird, that though you carry them hoodwinked, twenty or thirty miles—nay, I have known them to be carried threescore or a hundred—and there turned loose, they will immediately hasten to the place where they were bred. The Dutch call this pigeon 'Bagadat,' I suppose from a corruption of the name of the city Bagdad which was formerly old Babylon, which Nimrod built, because they judge this pigeon in its way from Bazora to be brought through that city."

This seems to be the extent of the writer's knowledge of the Carrier's origin, and while the account is meagre, it is full of interest to the thoughtful; and it is greatly to be regretted that we have not some written account of these birds as known and bred in those far-off eastern climes. Many English travelers have visited those distant cities and towns but they were evidently none of them fanciers, or some mention would have been made in their writings, of some of the varieties of pigeons we know, and of others that are unlike any we have ever seen. Occasionally some few specimens of these little-known varieties make their way to seaport towns, and are there picked up and brought to either this country or England. I have known many such specimens brought to these shores, but they have never increased and multiplied, and, consequently, to-day are unknown, and our fanciers have to content themselves with the old standard and acclimated varieties.—J. C. L.

Good Books a Necessity.

One of the first necessities of any one taking up the pigeon fancy, is one or more good books on the subject. With these to study and refer to many mistakes can be avoided, that he who has not the opportunity to read is liable to make. Through their influence his attention is directed to facts it would take years of experience to learn without their aid, and new ideas suggested that might never have presented themselves to his mind, but for the reading of another's experience. The first work on the subject in the English language, was written by the late John Moore of London, England. He called it the "Columbarian or Pigeon House," a treatise on the domestic pigeon. This was in the year 1735, one hundred and sixty-three years ago. It covered the ground pretty thoroughly, and while there have been numerous other works on the subject by Mayor, Girtin, Dixon, Boswell, Eaton, Lylle, Wright, and others, there have been few new ideas advanced for the practical treatment of pigeons, beyond what Moore gave to the fancy so many years ago. Pretty much all the varieties described by him are still in existence, and while there have been some marked improvements in heads, beaks, and arrangement of feathers, the general characteristics of all varieties remain about the same.

Since he first put his ideas in print, there have been many new varieties introduced, most of which would, no doubt, have delighted his heart to behold, possessing, as they do, many fea-

tures that are attractive and beautiful. And while they may have existed in the countries from which they have since come, they were most certainly unknown to him or they would have received at least a passing notice. This old work was long since out of print, and the few copies that are now in existence are prized more as literary curiosities than for the ideas they contain. Modern books on an elaborate scale, as for instance, "Wright's Illustrated Pigeon Book," have supplanted all these earlier works, and given us ideas, descriptions, and illustrations up to date, and all that the most ardent fancier could desire. A careful perusal of this work will give the young fancier a good idea of about all there is necessary to know to be a successful breeder, and aid him greatly in distinguishing the good from the bad, the spurious from the genuine.

American Turbit Club Specials.

Following is the list of Specials awarded on Turbits at the Louisville show: Silver Cup offered by the Louisville Association for the best collection of Turbits, won by Robert N. Oliphant. Silver Cup offered by the Louisville Association for the best Turbit hen in the show, any age, won by A. L. Hinterleiter. Gold Scarf Pin offered by Thos. Willetts for the best Turbit in the show wearing a "Willetts" 1898 enamel band, won by Robt. N. Oliphant. \$10 in gold for the best Turbit cock or hen, old-bird class. Offered by the American Turbit Club. To Geo. Ewald. \$10 in gold for the best Turbit cock or hen, 1898 bred. Offered by the American Turbit Club. To R. N. Oliphant. \$2.50 in gold for the best Black Wing Turbit cock, old-bird class. Offered by Wm. W. Kline, Reading, Pa. To Geo. Ewald. \$2.50 in gold for the best Black Wing Turbit hen, old-bird class. Offered by Wm. W. Kline, Reading, Pa. To A. N. Hinterleiter. \$2.50 in gold for the best Blue Wing Turbit cock, old-bird class. Offered by Geo. MacLeod, Louisville, Ky. To Wm. W. Kline. \$2.50 in gold for the best Blue Wing Turbit hen, old-bird class. Offered by Geo. MacLeod, Louisville, Ky. To Wm. W. Kline. \$2.50 in gold for the best Red Wing Turbit cock, old-bird class. Offered by Geo. MacLeod, Louisville, Ky. To Robt. N. Oliphant. \$2.50 in gold for the best Yellow Wing Turbit cock, old-bird class. Offered by Wm. S. Lentz, Allentown, Pa. To Robt. N. Oliphant. \$2.50 in gold for the best Yellow Wing Turbit hen, old-bird class. Offered by Wm. S. Lentz, Allentown, Pa. To Geo. MacLeod. \$2.50 in gold for the best Any Other Color Wing Turbit cock, old-bird class. Offered by P. H. Young, Louisville, Ky. To Robt. N. Oliphant. \$2.50 in gold for the best Any Other Color Wing Turbit hen, old-bird class. Offered by R. H. Young, Louisville, Ky. To Robt. N. Oliphant. \$2.50 in gold for the best Black Wing Turbit cock or hen, 1898 bred. Offered by Robt. N. Oliphant, Trenton, N. J. To Geo. MacLeod. \$2.50 in gold for the best Blue Wing Turbit cock or hen, 1898 bred. Offered by Robt. N. Oliphant, Trenton, N. J. To Robt. N. Oliphant. \$2.50 in gold for the best Red Wing Turbit cock or hen, 1898 bred. Offered by Robt. N. Oliphant, Trenton, N. J. To Geo. MacLeod. \$2.50 in gold for the

best Yellow Wing Turbit cock or hen, 1898 bred. Offered by Robt. N. Oliphant, Trenton, N. J. To Geo. MacLeod. \$2.50 in gold for the best Any Other Color Wing Turbit cock or hen, 1898 bred. Offered by the American Turbit Club. To Geo. MacLeod.

The above specials were competed for by the members of the American Turbit Club only.

Homing Pigeon Specials.

Contributions to the Homing Pigeon Classes at Madison Square Garden, January 31 to February 4, 1899, have been received through Mr. Howard Carter, superintendent of the U. S. Naval Homing Pigeon Service, Navy Yard, N. Y., as follows:

Messrs. Boschen Bros., 101 Barclay St., New York City, 100 lbs. peas, 200 lbs. Ariston Health Grit.

The American and Continental Sanitas Co., Limited, 640 W. 55th St., New York City, one premium box of Sanitas.

The Fanciers' Review, Chatham, N. Y., five copies of "Pigeon Queries."

The Pineland Incubator and Brooder Co., Jamesburg, N. J., six Pineland Pigeon Fountains.

The Excelsior Wire and Poultry Supply Co., 28 Vesey St., N. Y., 100 seamless aluminum leg bands.

Mr. D. Lincoln Orr, Orr's Mills, N. Y., 100 lbs. grit.

Mr. D. J. Lambert, Apponaug, R. I., 100 ozs. "Death to Lice."

Mr. Edward Schmid, 712 12th St., N. W., Washington, D. C., fifty lbs. tick beans.

Mr. C. F. Hoser, E. Washington Lane, Germantown, Pa., five subscriptions to the *Homing Exchange*.

Mr. C. E. Twombly, 32 Hawley St., Boston, two yearly subscriptions to the *Pigeon News*.

Mr. Charles E. Long, Lancaster, Pa., three sets of Long's Unrivalled Pigeon Remedies.

Mr. George E. Howard, Washington, D. C., five subscriptions to *The Feather*.

Spratts Patent, limited, 245 E. 56th St., N. Y., a contribution of pigeon food, value \$10.00.

Mr. Carter is exerting every effort to make the Homing Pigeon exhibit, at the coming Poultry and Pigeon exhibition, a grand success. This class of pigeons has not had the prominence at the principal shows as the other varieties that are bred exclusively for this purpose; while the Homer is both useful and worthy of admiration.

There are still several prizes required to complete the prizes, there being twenty-four in all. Those who desire to make this a red-letter day for Homers, should address all communications to Mr. Howard Carter, 190 Lincoln Place, Brooklyn, N. Y., in time for publication in the premium list.

TOO LATE FOR CLASSIFICATION

BARRED and WHITE PLYMOUTH ROCKS. Light and Dark Brahmas, Buff and Partridge Cochins, White Faced Black Spanish, English Red Caps, and Silver Gray Dorkings. Are winners wherever shown—Hagerstown, 1898, Washington, 1899. My birds were in strong competition, and will win in all classes. 2-cent stamp for large catalogue. Stock and eggs for sale at all times. Address, WESTERN MARYLAND POULTRY FARM, R. E. LONG, Proprietor, New Midway, Md.

WANTED A position on a poultry farm. Know the business in all details. and am willing to work for moderate salary. Good references. Must have work. Address F. W. T., care The Feather.



CRESCENT FARM

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BUFF COCHINS

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WHITE LEGHORNS

Which won nearly everything Competed for at Buffalo and Cleveland Last season.

WE can furnish some very choice young stock bred from the above winners.

Send for Catalogue.

REV. HENRY M. LADD, Prop.

Address E. T. BLOOD, Mangr.



Sold only in these Sealed and Branded Sacks.

FOR A MORNING MASH.

It Makes Hens Pay

The immense saving of time in using a ready-mixed food is, in itself, a great consideration. The absolute knowledge that American Poultry Food is scientifically combined under an exact formula, and is always the same, is another reason for its popularity among careful poultrymen. Besides it is kiln dried, which prevents its spoiling, and insures its palatableness. The process of its manufacture concentrates and increases its feeding value and assists digestion. **A morning mash.**



We freely offer the services of our Feed Expert to assist in the solution of all questions pertaining to the proper feeding and care of poultry, and invite you to write us on such matters, carefully stating your difficulties.

Practical Poultry Feeding, a little book covering a wide range of subjects of vital interest to Poultrymen, will be sent you free, post paid, on request. Address, SCIENCE DEPARTMENT,

The American Cereal Co.

1351 Monadnock Bldg., Chicago, Ill.

THE BUSINESS WORLD.

As Viewed From the Columns of The Feather.

THE PEEP O'DAY MACHINES.

There is hardly any invention known to the poultry fraternity that has given more universal satisfaction than has the "Peep O'Day" brooder, manufactured by E. F. Hodgson, Dover, Mass. These brooders have been made and sold by Mr. Hodgson for the past six years, and they have steadily grown in favor since their introduction. In the "Peep O'Day," Mr. Hodgson seems to have combined the complete list of good principles essential to a practical and a thoroughly good brooder. These brooders are in use in every State in the Union, and are highly commended by all who use them, being practical, durable and economical.

The "Peep O'Day" brooder is three feet square, giving nine square feet of floor space, and the hover is two feet in diameter, which gives ample warm-air space for hovering the chicks. It is two feet high in front and one and one-half feet high at back, the space being divided into, first, a lamp-chamber;

way that the currents of warm air that pass from under the circular hover are carried off by the outside ventilators, and all the cold air that enters the brooding chamber must first pass through the heater, which insures pure air without cold draughts, a very important factor which has made the "Peep O'Day" famous. The heat in the hovering-room is controlled by a ventilator which, when open, allows the hot air to escape directly from the upper dome. With the aid of the thermometer, which is set in the hover in such a way that the bulb is just on a level with the chicks' bodies, the temperature is easily and accurately controlled by this ventilator without adjusting the lamp flame. All parts of the hovering-room are round, having no corners that the chicks can crowd into. With this arrangement for heating the brooder, the old hen is followed very closely, as it gives top and side heat with but little bottom heat."

Of his incubator Mr. Hodgson says: "All our machines are pre-

heater—not the egg-chamber. As no lamp trips are used, the flame always burns steadily, without interruption, nor is the damper in any way connected with the lamp chimney or flues, and does not change the draught of the lamp by the raising of the cap or damper. A thermostat of tempered metals is used for this purpose. Hard rubber or soft metals have never given us satisfaction.

"We have taken every precaution to have a fire-proof machine. In all parts where heat is confined to any extent, mineral wool is used for a packing material. In addition to this we use a specially constructed metal lamp, with one of the best burners manufactured, and believe that we have as safe an incubator in this respect as has yet been produced."

AN EXTERMINATOR.

One of the best and most satisfactory



-1894-

-1897-

-1892-

second, a heated department; third, the hover and heater department forming the brooder proper. It is heated by a safety lamp or brooder stove. This lamp is wholly separated from the brooder-chamber, with independent ventilation, and no lamp fumes can reach the chicks or the air they breathe.

Mr. Hodgson describes the principal features of his brooder as follows:

"The entire top of the lamp-chamber is covered with galvanized iron, in which is inserted a large brass heating dome that extends upward into the hover dome, above the brooding floor. In this way the heat is generated above the brooding floor with just enough bottom heat to keep the floor dry. The hover dome which completes the heating arrangement is located under the center of the circular hover, it having a conical register projecting above the hover to allow the escape of hot air if necessary. In this hover dome the brass heater dome generates the heat and is supplied with fresh air from outside on the same principle as the hot-air furnace, so that it is constantly drawing in fresh air, heating and passing it in under the circular hover. This system gives a perfect ventilation and an even temperature to every chick alike, making overheating, chilling, smothering and other objectionable features impossible. In fact, the ventilation is so perfect that the outside brooder-chamber is ventilated around the top in such a

cisely alike, and constructed of the best materials suited for their particular purpose. The outside case is panelled and handsomely finished. The inner case is of white pine; the space between the two cases being from two to four inches, making the inside of the machine thoroughly insulated from outside changes in temperature. All metal work is of brass, copper, or galvanized iron. The application of heat is entirely from above (as it should be in all successful hatcheries), from a hot-air drum and tubing heated by a specially constructed metal lamp, conveniently placed on a metallic swinging shelf. No fumes can enter the egg-chamber. Cold, fresh air is drawn in about the hot-air drum and tubing, and being heated, passes downward through the machine and is spread evenly through the eggs; then to a space below, where it is drawn outside through a conductor, the outlet being controlled by a valve. Absolute control of the ventilation and moisture is thus obtained, and all cold draughts and an over-supply of moisture are avoided.

"Our regulator is the most sensitive and accurate yet invented. It differs materially from others, and when received by the operator it is simply laid in position, no fastening or adjusting being necessary, and the whole arrangement being made of castings, there is no danger of throwing it out of adjustment. The temperature is kept at the proper degree by simply allowing the surplus heat to escape from the

exterminators of lice on poultry is Lee's Lice Killer, manufactured by the Geo. H. Lee Co., Omaha, Neb. The formula from which this preparation is made was discovered by Geo. H. Lee, in the spring of 1895. Since its first introduction to the public it has grown in popular favor, and is being now used in all sections of this country as well as a number of foreign ones. It is highly endorsed by all who have used it and has never failed in the purpose for which it was intended—getting rid of vermin on poultry.

Mr. Lee describes in his booklet, "How to Get Rid of Insects and Other Vermin," some interesting things about his Lice Killer as follows:

"Lee's Lice Killer possesses the property of not requiring contact with the vermin in order to kill them. All that is necessary is for the fowls to roost over, and close to, a surface painted with the liquid. The odor arising from the painted surface is what performs the work of extermination, and as it penetrates through and through the feathers of the fowls, it does more thorough work than the most careful dusting can do.

"Painting the roost-poles, roost-supports, and nest-boxes, exterminates all mites and bugs that may find a harbor in and about the cracks and crevices of the poultry-house, also a great many of the body lice on the fowls. The reason why painting the roost-poles alone does not kill all of the body lice is that the fowl is sitting on a very narrow surface, and the front and rear portions of the body receive but a very small portion of the odor from the painted surface.

"To exterminate the body lice thoroughly it is, therefore, necessary to have a wider surface for the fowls to roost over. This is easily done by placing a wide board close up under the roost and painting both the board and the roost

with the Lice Killer. The roosts and boards should run the full width of each pen and rest on the cleats attached to the partitions or sides of the poultry-house. The roost rests on a separate cleat above the board, and the latter may be removed at any time without disturbing the roost.

"By having the poultry-house arranged in this manner and painting with the Lice Killer at intervals of two weeks or a month, the fowls and poultry-house can be kept entirely free from vermin at a very small expense, and almost no labor, as the painting occupies but a few minutes each time.

"In cases where it is not convenient to prepare the roosts as above outlined, the fowls may be placed (a few at a time) in a box, the bottom of which has been painted inside with Lee's Lice Killer. The top of the box should not be too tightly covered, or there would be danger of smothering the fowls if left too long a time. When Lee's Lice Killer is used in the nest-boxes a little sand or moist earth should be placed in the bottom of the box, then a layer of straw or other nesting material. This prevents the Lice Killer from affecting the flavor or germ of the egg.

"It is not necessary or desirable that Lee's Lice Killer be used with very young chicks. Where chicks a week old are infected with lice, it evidences a deplorable state of affairs on the premises generally. If the old fowls and the poultry-houses are kept free from vermin, there will be no difficulty as regards lice on the young chicks. Where the chicks are running with a mother hen, the hen should be given attention for lice at the start. If, however, this has not been done, and the whole brood is infested, the hen should be removed from the chicks and placed for a couple of hours in a box painted with Lee's Lice Killer. This should be repeated at intervals of several days, and the odor remaining in the feathers of the mother hen will kill the lice that are on the chicks. In no case should young chicks be placed in a box or coop with Lee's Lice Killer, either alone or with the hen. If the coop is slatted or open the sides may be painted with the Lice Killer, but not the bottom, as the hen would smother the chicks by pressing them down on the painted surface."

We take pleasure in publishing the following testimonials:

Geo. H. Lee Co., Omaha: * * * "As many as a dozen persons have told me they would take it as soon as ever I got it. I would not be afraid to invest \$50 in the Lee's Lice Killer alone, for once used, no one would be without it in the poultry-house. The Tonic Powder I know also is equally good for producing eggs."

MISS SUSIE MARSH, Armour, S. D.
December 30, '98.

Geo. H. Lee Co., Omaha: * * * "Enclosed find \$1 for five more boxes of Lee's Tonic Powder. Hens that were laying 7 and 8 eggs per day are laying 17 eggs per day after two feeds of Tonic Powder."

WALTER MILLER, Ewing, Neb.
December 30, '98.

See their ad elsewhere in this number and write them for a free copy of their booklet, "How to Get Rid of Insects and Other Vermin." They have recently opened an office in New York City to better handle their eastern trade, and supply their customers promptly with a minimum charge for freight or express.

A "SUCCESSFUL" MACHINE.

We give an illustration of the Des Moines Incubator plant, located at the capital city of Iowa. The rapid growth of this concern is one more proof of

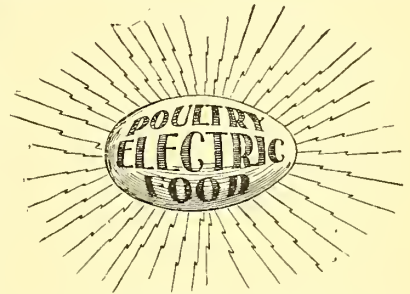
what can be accomplished in the manufacturing of incubators and brooders which have in them the essential features to warrant a public demand. It is not presumption on our part when we say that they have excelled all previous records in bringing to a state of perfection one of the largest incubator works in existence. Throughout this period of rapid progress strict attention has been paid to the laying of a rigid business foundation and everything pertaining to their manufacturing departments is of a very substantial nature. Judgment, correctly applied, and judicious expenditures of cash yield success to any legitimate enterprise every time.

During the past eight months no less than \$1,800 has been paid out by this firm for new and improved machinery, namely: A 36-inch Boss double cylinder sander, or finisher, \$385. A Clement Automatic Back Knife Turning Lathe, \$370. A Bliss Steel Die Press, with eighty-six dies, \$1,150. This additional equipment, in connection with their already extensive facilities for manufacturing, affords them great advantages over smaller concerns who are obliged to have many parts of their machines made by contract or purchased complete outside. Very few people, even those who are familiar with the operation of incubators, realize that the number of metal pieces required to complete a standard machine (200 size) is over 140 in number. Imagine the amount of time it would consume in cutting out that many pieces by the old hand-blistering, snip-shear way, a method as inadequate to compete with the improved die press and power shear as that of hand work compared with the sewing machine.

Within the same period a new two-story building, 35x85 feet, has been completed and is now well filled with stock awaiting delivery during the "rush" period. One of the most essential points in conducting an incubator business is to be prepared to make prompt shipments. Over seven-tenths of the incubators and brooders sold through the year is bought during the three spring months and when the purchaser has sent his cash even a short delay will cause inconvenience and leave a bad state of feeling. We believe that the Des Moines Incubator Company, and the machines they make, have excellent advantages that will pay the contemplating purchaser to investigate. Their

'99 catalogue is one of the finest that we have seen, showing their most popular machines in colors. It also contains a varied amount of practical information of a nature that makes it a book of value in the hands of every poultryman. Six cents (the price they ask) is a small amount compared with what it costs. Address, Des Moines Incubator Co., Box 3, Des Moines, Iowa.

The opinion of the person who saw the "Successful" on exhibition at the World's Fair in '93, would have been seriously ridiculed had he intimated that it would have been the leading egg-hatching machine at the Trans-Mississippi Exhibition in '98, and from a competitive point of view we believe the highest awards on incubators and brooders justly belong to whom they were given, the Des Moines Incubator Company.



A BALANCED RATION.

Every poultryman of experience knows that certain foods will produce fat in hens while others will produce eggs. They know that fat is fatal to best results in egg production and that eggs from excessively fat hens are deficient in vitality and will not produce strong, healthy chicks. The obviation of these several difficulties lies in the striking of the happy medium—the feeding of a food that will sustain the hen in strong, healthy working condition, and with a tendency to egg production; something that is rich in egg-making material. Such a food would be a balanced ration; one which contained the proper food elements in just the correct proportions to produce the best results. A poultry food of that kind is being prepared by the Harvey Seed Co., of Buffalo, N. Y., who are large dealers in all kinds of poultry supplies. This Electric Poultry Food is made entirely of cereals and produces



FACTORY OF THE DES MOINES INCUBATOR CO., DES MOINES, IOWA.

ROUP cured with little trouble

AND AT SMALL EXPENSE.

Read what prominent breeders say.

Wm. Beswick, of Garfield, N. J., sends us the following:—"I find that **Mexican Mustang Liniment** is a positive and quick cure for Roup. I had a Buff Leghorn pullet that had it so bad that both eyes were swelled shut and it cured her in four days so that she is running around now, and to look at her you would think she never was sick. I have used it on others and it cured them. It is the best and quickest remedy I ever used for Roup."

Paul Wendt, of Akron, Ia., writes us as follows:—"I used your **Mexican Mustang Liniment** on two severe cases of Roup, and also frosted comb, and it has given the best satisfaction."

W. B. Williams, of Stella, Neb., writes:—"Not long since I had a hen sick with the Roup. I caught her, plucked a feather from her wing and swabbed her throat well with **Mexican Mustang Liniment** and it cured her and I have not been bothered since. Two friends had some chickens that had the Roup very bad and had tried several remedies but they did no good. I recommended **Mexican Mustang Liniment** to them and afterwards they both told me that the liniment cured their birds. I expect to keep your liniment on hand as long as I am in the chicken business."

Mr. J. F. Crangle, Sup't of the widely known Fishers Island Farm, N. Y., has this to say:—"We can recommend **Mexican Mustang Liniment** to anyone who is in the poultry business as something which they ought to have on hand at all times. It will do what you claim for it, and in some instances will do more."

W. E. Jolly of Clarkston, Ga., says:—"I have had several fine fowls sick with Roup for which I used **Mexican Mustang Liniment** and it effected a speedy cure—I did not lose a bird."

Mrs. E. D. Bobbitt, of Merritt, Ills., sends us the following letter: "I wish to tell you that I have used **Mexican Mustang Liniment** during the last Winter with good results. I had quite a number of my Barred Plymouth Rocks attacked with that dreaded disease, Roup, and I doctored them with your liniment and did not lose one of them. With it I also cured Bumblefoot on my first prize cock. **Mexican Mustang Liniment** does the work thoroughly and quickly when used for poultry diseases, and cannot be given too high praise. I think it is all you claim it to be, and I know that it is to the interest of every poultry raiser to keep this valuable remedy close to his poultry yard at all times."

Write for Booklet, "Poultry Pointers," mailed FREE. Address **Lyon Manufacturing Co.,**

Mexican Mustang Liniment is sold at 25c., 50c. and \$1 per bottle.

41, 43 & 45 South Fifth St., BROOKLYN, N. Y.

excellent results for laying hens and growing chicks. Write these people for their catalogue of pigeon and poultry supplies which tells all about it.

A NEW FENCE.

The De Kalb Fence Co., of De Kalb, Illinois, who are well known to our readers as manufacturers of woven wire fencing, have just notified us of a new departure in their business. Foreseeing the necessity of a better grade of poultry fencing, yet cheaper to the user, they have placed upon the market the M. M. S. Poultry Fence. The superior point of this fencing, we are informed, is that it is a true fence and not a netting; this means that while the fence is completely interwoven it has continuous lateral wires which are interspersed at intervals with twisted cables running the entire length of the fence. The advantage of this arrangement is obvious, as it admits of the complete and thorough stretching of the fence. It does away entirely with the top and bottom rail required by the old-style netting and requires but half the number of posts. If you are thinking about using any poultry fence write these people for particulars and prices.

TRANSFER OF STOCK.

This is to certify that I have sold my entire stock of White P. Rocks, consisting of about 75, to F. G. Bean, Fairview Village, Pa. All in need of good White P. Rocks will do well by consulting Mr. Bean.

SAMUEL R. BEYER,
Worcester, Pa.

A GRATIFYING SUCCESS.

Mr. A. G. Barlow, Millers, N. Y., reports a very gratifying success with his birds at the Fredonia, N. Y., show. He won as follows: On Barred Plymouth Rocks in strong competition 4th pullet, 2d cockerel, and 2d pen. On White Rocks, 2d cock, 1st and 2d hens, and 1st pen, also special for best pen, and special for second best cock. On Toulouse Geese, 1st old gander, 1st old goose, 1st and 2d young gander, and 1st and 2d young goose. Mr. Barlow's ad will be found on another page and our readers will do well to write him for prices on his fine stock.

A NOTED BIRD.

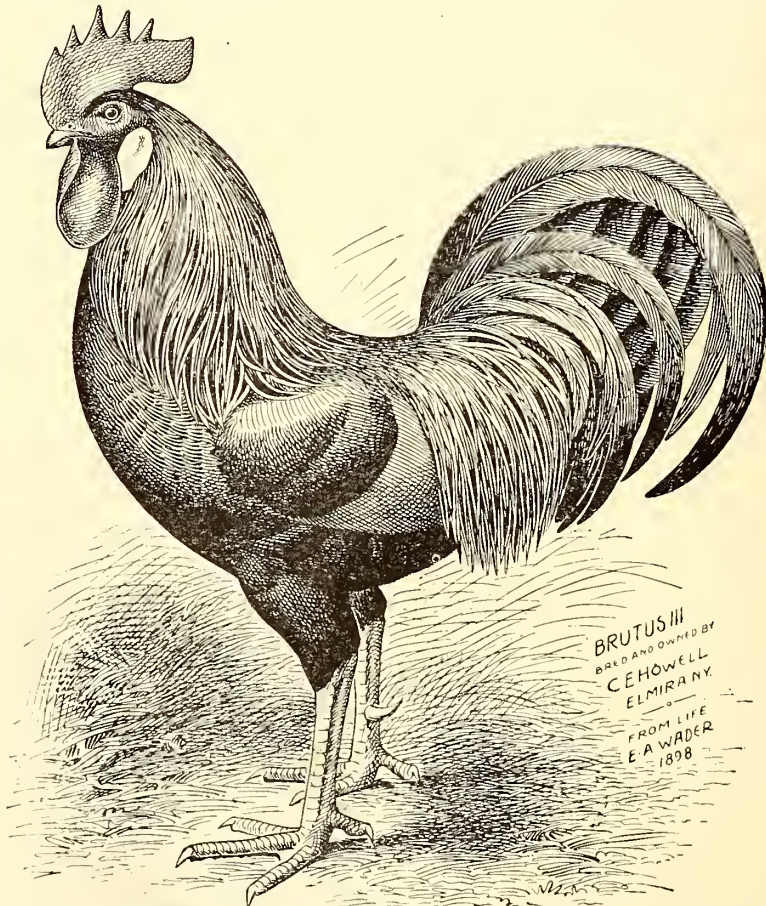
The illustration of the Brown Leghorn cockerel, Brutus III, bred and owned by C. E. Howell, Elmira, N. Y.,

is a splendid representation of a great bird. Mr. Howell is an exclusive breeder of Brown Leghorns, and has won distinction in the best show-rooms of the country. Those wishing stock or eggs should note his ad and write him for one of his handsome illustrated catalogues with prices.

KLEE'S BUFFS.

W. C. Klee, Rochester, N. Y., breeder of Buff Wyandottes and Buff Plymouth Rocks, changes his ad in this number of THE FEATHER. Mr. Klee makes a specialty of these two varieties and has

bred some notable winners. He has raised a finer lot of Buffs this season than ever before, and is in a position to furnish his customers with first-class stock at reasonable prices. His stock is not only winning in his hands, but does equally as well in the hands of his customers. One of his customers writes of winning at Watertown, N. Y., in '98, on Buff Wyandottes, first cockerel and first pullet, hatched from eggs bought of him. Mr. Klee says the cockerels he offers in his ad this month are fine ones for the money, and can not be beaten for the price. Better write him



BRUTUS 3D, WINNER OF 1ST PRIZE AT ELMIRA, N. Y., DEC., 1897.

if you want a good breeder at way-down price.

KULP'S WINNERS.

For the past fifteen years, W. W. Kulp, Pottstown, Pa., has been breeding fine poultry. He has made a decided success of the business, and begins this season better equipped than ever before to supply both breeders and eggs to his large list of patrons. Mr. Kulp breeds Barred and White Plymouth Rocks, Single and Rose Comb Brown Leghorns, White Wyandottes, Black Minorcas, Buff Leghorns, Buff Pekin Bantams, Black Langshans, Light Brahmas, Single Comb White Leghorns, Pekin Ducks, and Belgian Hares. This list comprises some of the most popular varieties of poultry, and you are sure to be satisfied, or as Mr. Kulp says: "If you do not like the stock you can return it at once by paying the express and I will refund your money."

His catalogue shows a long string of winning birds, but we shall not for want of space publish them here. Send for one of his large catalogues and price lists and see for yourself. Below we publish a recent testimonial of one of his patrons in Effingham, Canada, which speaks well for his stock:

"I thought I would drop you a line to let you know how your stock came out at our fairs. I sent a pair of White Rocks to Beamsville show and won first cockerel and first pullet; Jarvis was judge. I sent the same pair to Fenwick and won first on pair. At the Welland show I entered two White Rock cockerels and two pullets, and won first and second on cockerels, and first on pullet; I also entered one pair White Leghorns, out of your eggs, and won first on cockerel, the pullet being thrown out because she had too large a comb. I entered a pair of Rose Comb Brown Leghorns, also out of your eggs; they had to compete with Single Combs, but I won second cockerel and first pullet; Jarvis judged. He wanted to buy my White Rock cockerel to take to the O. A. College. So you see I got first-prize winners out of all three kinds of eggs I got from you. * * * My fowls are greatly admired and I will want more eggs from you in the spring. Some of my neighbors will want some also."

TAYLOR BECKETT.

SEED DUE BILL FREE

To get new customers to test my seeds I will mail my handsome catalogue for 1899, lithographed and beautifully illustrated, and a 10c. Due Bill, good for 10c. worth of seeds for trial, absolutely free. It is full of bargains. All the Best Seeds, Bulbs, Plants, Roses, new Fruits, Farm Seeds, Potatoes, etc., at lowest prices. Ten Great Novelties offered without names. I will pay \$50. FOR A NAME for each. Don't buy your stock until you see this new catalogue. Several varieties shown in colors. Great inducements for orders this year. You will be surprised at my bargain offers. Send your address on Postal to-day. Tell your friends to send too. Old customers will receive a copy. F. B. MILLS, Seedsmen, Box 118, Rose Hill, N. Y.

Potomac View Poultry Farm

Breeds High-class

Barred Plymouth Rocks and Buff Leghorns.

Eggs in season.

R. C. GRINDER, Proprietor,
Rosslyn, Va.

BROMLEY'S SUCCESS.

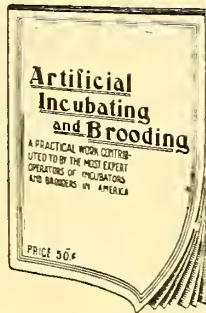
A correspondent writes: "One of the finest displays of Brown Leghorn chickens to be seen in a poultry exhibit was that of L. O. Bromley at North East, Pa. Mr. Bromley, is a Forestville (N. Y.) boy who has made an enviable reputation with his pets, and his many friends hereabouts will learn with pleasure of his latest success. At North East he showed five pullets scoring as follows: His first pullet scored 94¾; second pullet 94½; third pullet 94. He also won second cockerel, and tied third cockerel and first hen. He won first on

pen, scoring 187¼ points, besides numerous specials.

"Mr. Bromley has also won many prizes at Fredonia, N. Y., and at Delaware, Ohio, shows. At these three shows he entered twenty-one birds, winning nine firsts, five seconds, three thirds, and one fourth prize. Seven of his twenty-one birds scored between 94 and 95 points by two different judges."

Mr. Bromley is a regular advertiser in THE FEATHER and we would suggest that our readers who wish Brown Leghorns write him. See his ad elsewhere in this number.

GREATEST POULTRY BOOK —EVER COMPILED—



It is the greatest because it is the most up-to-date, the most practical, the best illustrated, and is contributed to by the most expert authorities in the world. The title of this great work is

Artificial Incubating and Brooding. ❖ ❖ ❖

This book contains 140 pages, 12x9 inches in size, with over 100 illustrations, among the number being EIGHT FULL-PAGE COPYRIGHTED DESIGNS of modern

brooder houses, laying houses, incubator cellars, etc. It contains full and complete instructions on the use and abuse of incubators, from one machine up to fifty; on how to house, care for and feed chicks and ducklings, all the way from a hundred or two up to several thousand. It tells the man or woman on the farm and in the village or city, how to start right in hatching and raising chickens and ducks by artificial means, and (what is more important) how to GO RIGHT after a start is made.

The Contributors to this Book Make it Great—Here is a Partial List:

- J. L. CAMPBELL, West Elizabeth, Pa. Inventor of the Eureka Incubator.
- JAMES RANKIN, So. Easton, Mass. Inventor of the Monarch Incubator and Author of several Poultry Books.
- A. F. HUNTER, So. Natick, Mass. Editor of *Farm-Poultry*, Boston.
- MICHAEL K. BOYER, Hammonton, New Jersey. Editor of "A Few Hens" and Author of several Poultry Books.
- E. O. ROESSLE, Albany, N. Y. Editor Poultry Department of *The Country Gentleman*.
- A. F. COOPER, Homer City, Pa. President of the Prairie State Incubator Co.
- FRANK FOY, Des Moines, Iowa. Superintendent Hatching Department, Des Moines Incubator Co.
- GEO. ERTEL, Quincy, Ill. Inventor of the Victor Incubator and Brooder.
- G. A. McFETRIDGE, Bound Brook, New Jersey. Inventor of the Star Incubator, and Author of Poultry Books.
- CHAS. A. CYPHERS, Wayland, N. Y. Author of "Incubation and Its Natural Laws," and inventor of the Cyphers Incubator.
- JOHN W. MYERS, Quincy, Ill. President of the Reliable Incubator and Brooder Co.
- E. W. ANDREWS, Elmira, N. Y. Inventor of the Universal Incubator and Brooder.
- E. F. HODGSON, Dover, Mass. Inventor of the Peep o' Day Incubator and Brooder.
- GEO. H. POLLARD, So. Attleboro, Mass. Practical Operator, who produced 5,000 Ducks on two acres of land, in one season.
- A. J. HALLOCK, Speonk, L. I., N. Y. Uses 60 Incubators and produces 15,000 to 18,000 Pekin Ducks a year.

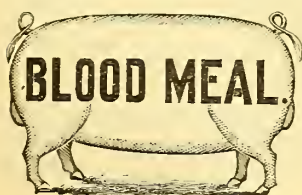
This Book is sold ON APPROVAL. If it is not satisfactory, it can be immediately returned in good order and the purchase money will be promptly refunded.

PRICE, sent post-paid in the United States and Canada, only 50 Cents. One and two-cent U. S. Stamps accepted. Address

GEORGE E. HOWARD & CO.,

504 11th Street N. W.,

Washington, D. C.



IF YOU WANT YOUR HENS TO LAY, FEED THEM

...DEODORIZED BLOOD MEAL...

(Summer's Process.)

Only Animal Meal on the market that is Odorless. Blood contains all the elements of the egg. It will make your hens lay when nothing else will. It will make young chicks grow faster than any other food. We have 2,000 unsolicited testimonials from satisfied users. Send for circulars or try a sample order. Blood Meal is the most highly concentrated food made. 10-pound bags 50 cents each; 50-pound bags, \$2. Order from our nearest house. Agents wanted.

F. S. BURCH & CO.,

68 Murray Street, New York.
178 Michigan Street, Chicago.
1110 Farnam Street, Omaha.

Classified Advertisements

Fully prepaid advertisements of thirty words or less inserted under this heading at the following rates:

One time.....	\$.50
Three times.....	1.00
Six times.....	2.00
One year.....	3.50

READ CAREFULLY.

Copy may be changed as often as desired, though we advise running a standard ad. when possible, in order that buyers may become acquainted with it. Length of ad. is not limited, but additional words will be charged at the rate of 1½ cents each for one insertion, or 1 cent each for each insertion when run three times or more. Initials and figures count as single words.

PLYMOUTH ROCKS

BUFF PLYMOUTH ROCKS ONLY.

When "Old Glory" proudly floats o'er Porto Rico, When Cuba "Queen of the Antilles" rises free, You can easily meet and pay the heavy taxes, By breeding Burdick's "Nuggets" don't you see? My yearly sale now open. One hundred yearling hens; twenty-five yearling cocks; over four hundred youngsters; my prices reasonable; quality governs; birds from \$2 up. I will try to make you all happy. Write letters to H. S. BURDICK, Rome, N. Y.

THE EARLY BIRD CATCHES THE PRIZE.

January, February, and March-hatched chicks for the Fall shows a specialty. Buff, Barred, and White Plymouth Rocks, Brown and White Leghorns, and Black Minorcas; bred from 1st prize winners for years at Mt. Gretna, Washington, and New York. Prices reasonable. Write. J. W. BRUCKART, Lititz, Pa.

WHITE PLYMOUTH ROCKS exclusively.

Bred for exhibition and practical purposes. Hagerstown, Oct. 1898—2 firsts out of 3 entries. Stock and eggs for sale. J. F. DEFANDORF, Garrett Park, Md.

TWO B. P. ROCK COCKS for sale, each a winner as cockerel last season, one at Charlotte, Lambert, judge; other at Shelby, Marshall, judge. Eggs when you want them. B. S. DAVIS, Asheville, N. C.

WILSON BROTHERS' BUFF ROCKS. In order to make room for winter we will sell first-class breeding stock, old or young, at greatly reduced rates. Exhibition birds a matter of correspondence. We are especially strong in fine pullets, clear in wing or tail or both. Satisfaction guaranteed. C. G. & P. WILSON, Sag Harbor, N. Y.

BUFF PLYMOUTH ROCKS ONLY. "Pure Burdick strain." A few yearling cocks and hens, 100 up to date cockerels and pullets; prices reasonable; quality governs; birds from \$1 up; try me. VERNON K. DAYHOFF, Chewsville, Md. Vice-Pres. American Buff Ply. Rock Club.

E. M. VAN NESS, 514 13th Street S. E., Washington, D. C., has for sale some very fine Barred Plymouth Rocks. Write for his prices, they are low.

THEO. REYNOLDS, Danbury, Conn., breeds Barred and Buff Ply. Rocks as good as the best, as his winnings show. He has a fine lot of stock for sale. Prices low.

WHITE ROCK POULTRY FARM. White Plymouth Rocks exclusively. (Hawkins' strain.) 100 large white birds for sale. My birds win wherever exhibited. None better. JESSE F. WITBECK, Box 48, Burnt Hills, N. Y.

BARRED PLYMOUTH ROCKS EXCLUSIVELY. First-class stock for sale. Large, good shape, and well barred cockerels at \$1.50 to \$2.50 each, pullets same price. If not as represented can be returned at my expense. WM. R. PAGE, Avon, N. Y.

REMEMBER MY E. B. THOMPSON Barred Plymouth Rocks. You will be left outside if you don't get some of my stock. Cock and cockerels for sale cheap. Eggs for hatching. H. T. BROWN, Watkill, N. Y.

BUFF PLYMOUTH ROCKS of high quality, exclusively. My yards contain first cock, second hen, first pullet, at Cleveland, and fifth pullet at Kansas City, '97, and second pullet at the Great Hamburg Show. First cockerel, Mt. Gretna, New York State Fair, Poughkeepsie, and Middletown, and first pen, New York State Fair, '98. Young stock from above breeders cheap, considering quality. Also a few yearling breeders. H. C. FOXTON, 416 Hamilton St., Syracuse, N. Y.

A. W. ADAMS, Hartwell, Ga., offers Barred Plymouth Rocks, Hawkins and Thompson Strains in pens of five, one cockerel, four pullets, for Five Dollars per pen. Last Season's pen headed by fine cock direct from Hawkins. Reference, by permission, Hartwell Bank.

SPRUCE RUN BARRED P. ROCK FARM. A few choice cockerels for sale. Price, \$2. Eggs, \$1 per setting, \$4 per 100. Write for wants. GEORGE REED, Glen Gardner, N. J.

LEGHORNS

CEDAR HILL POULTRY FARM—Write to Cedar Hill Fruit and Poultry Farm for prices on Single Comb Brown Leghorn, Barred P. Rock, Buff Cochins and Light Brahma fowls and eggs. Some fine surplus cockerels of first-named breeds for sale low. Eggs for incubator use \$5 per 100; good common eggs (large breeds), \$2.50 per 100. R. S. COLE, Harman, Md.

FORSYTH STRAIN S. C. BROWN LEGHORNS. 12 prizes on 10 entries at Rochester, 1897. Fine young and old stock for sale, cheap, that will score into the 90's. Write wants. FRANK G. RICE, Dansville, N. Y.

PLEASANT VIEW POULTRY YARDS.—R. C. Brown Leghorns, which are again winning prizes at all the leading shows. Have a few show and breeding cockerels for sale at low price, for want of room for my breeding yards. Birds are strong and healthy. W. G. FRONHEISER, Prop., Pottstown, Pa. Address, J. B. HOFFMAN, Mgr., Sanatoga, Pa.

WAYNE POULTRY YARDS, Coatesville, Chester Co., Pa., J. H. SCHERER, Prop. S. C. B. Leghorns exclusively—Winners at the following shows in 1897: Pottstown, Pa., Scranton, Pa., Mt. Gretna, Pa., Carlisle, Pa., Seneca Falls, N. Y., Sanatoga, Pa. Eggs, \$1 per setting. Stock for sale. Postal for circular.

S. C. BROWN LEGHORNS, Tenth season. Stock and eggs for sale. Eggs, \$1.00 per setting. Cornish Indians' and B. P. Rocks' Eggs, \$1.50 per setting. HOWARD A. PINNEY, Sheffield, Pa.

SINGLE COMB BROWN LEGHORNS.—A few fine cockerels from first-class strains at \$1 each. 2 fine cocks for breeding at a bargain. 3 Mottled Ancona cockerels, cheap or exchange. A. S. GORDON, 209 Chestnut St., Towanda, Pa.

MY SINGLE COMB BROWN LEGHORNS made a clean sweep at Blanchester Fair, August, 1898, took every premium offered on Brown Leghorns in strong competition. Single birds, \$1. Satisfaction guaranteed or your money returned. M. C. BROWN, Morrisville, Ohio.

S. C. B. LEGHORNS. Do you want typical shape and style? Do you want small combs and pure white ear-lobes? Also rich color? Address, W. B. GERMAN, Specialist, Millville, Pa.

FIVE FIRST PRIZES out of a possible six, and \$5 gold special, is what my S. C. White Leghorns won at the great Cambridge Fair, 3,700 entries. Drevensdt, judge. Exhibition and breeding stock for sale. Choice cockerels \$2 and up. Catalogue. H. V. BUMP, Cambridge, N. Y.

50 C. PER DOZEN, \$3.50 per hundred, Wyckoff strain. White Leghorn eggs. Circular free. S. J. BISHOP, Cheshire, Conn.

BRAHMAS

CHESTNUT GROVE POULTRY YARDS JOSIAS J. GEORGE, Proprietor. Yards at Jenkins P. O., Long Green Valley, Baltimore Co., Md. City address, 443 North Street, Baltimore, Md. Light Brahmata Exclusively. Early-hatched cockerels and pullets for sale. Cockerels, \$3 to \$5; trios, \$5 to \$8. Yard headed by cockerel 1st prize at Washington, 1897.

STEPHEN SPENCER, Morris Plains, N. J., will offer eggs from high-class Light Brahma and Buff Cochins, balance of season, at \$2 per 13; \$5 per 3 settings. I have bred America's best for nearly 20 years. Exhibition and breeding stock for sale. Cockerels at low prices. Write for particulars. Mention The Feather.

DARK BRAHMAS, early hatched, large and vigorous, the results of 6 years' careful and successful breeding, at \$3 per pair. Silver Sebright Bantams, exquisite in lacing and color, same price. Address, FRANK H. KELLER, Elizabethtown, Pa.

LIGHT BRAHMAS.—As fine as there are in the South, as our show record will prove, birds score to 95. A fine lot of breeders and show birds for sale, including first and second prize cockerels at the State Fair. Also Minorcas, B. Langshans, Bantams, and Pit Games. W. D. HARRILL & CO., Ellenboro, N. C.

CHOICE UP-TO-DATE STOCK of Light Brahmata, Single Comb Brown Leghorns, and Barred Plymouth Rocks. Eggs, \$1 per 13. Stock for sale. Satisfaction guaranteed. If you wish high quality and fair treatment, address, J. M. PORTER, Morristown, N. J.

FRANK L. GARDNER, Fitchville, Conn., breeder of prize-winning Light Brahmata, "Duke of York" strain. Also choice White Wyandottes. Eggs from prize matings at \$2 per 15. Satisfaction guaranteed.

GAMES

CHAS. T. CORNMAN, Carlisle, Pa., breeds all varieties of America's best Games, Game and Variety Bantams. If you do not believe it, look up the awards at the great shows. Eggs in season. Stock for sale. Send for price card.

FINEST GAMES ON EARTH. Circular free. Irish Black Reds, Heathwoods, Irish and Mexican Grays, Cornish Indians, and Rouen Ducks. Buy now and save money. Mention The Feather. C. D. SMITH, Fort Plain, N. Y.

H. T. HERMAN, Carlisle, Pa., has for sale a fine lot of stock in Black Breasted Red Game, White Faced Black Spanish, Black Breasted Red and Red Pyle Game Bantams. Eggs in Season.

WYANDOTTES

SILVER WYANDOTS EXCLUSIVELY.—Winners and layers; healthy, vigorous stock. March and April hatches now being ordered. Prices reasonable. Satisfaction guaranteed. Write. J. M. HAMBLEN, HIGHLAWN FARM, Vienna, Fairfax Co., Va.

SILVER WYANDOTTES.—I have for sale 15 cockerels for \$2 to \$5; 1 cock \$3; 12 females \$1 to \$3. Satisfaction guaranteed. R. G. WILLIAMS, Barre, Mass.

SEVERAL CHOICE WHITE WYANDOTTE cockerels \$2 each, no pullets for sale. Eggs, \$1 per 13. Two Bull Terrier puppies, 5 mos. old \$3 each. F. W. TEMPLE, West Chester, Pa.

WHITE WYANDOTTES EXCLUSIVELY. Best all-around breed. Extra fine stock for sale at all times. My stock is strong, vigorous, and farm raised. A. H. ARNOLD, East Townsend, Ohio.

BUFF WYANDOTTES EXCLUSIVELY. The greatest general-purpose fowl in existence. Stock for sale at reasonable prices. Eggs from best matings at \$1.50 per 15. W. P. PRATT, Chatham, N. Y.

H. F. LIETZ, Meriden, Conn., Box 158, breeder of White Wyandottes, has for sale some good large pullets; also some fine cockerels, good show birds. My yards produced the following prize winners last season: 1st and 3d cockerels and 1st and 2d pullets at New London, Conn., '97; 1st and 3d cockerels at Hartford, Conn., '97.

BORMAN'S GOLDEN WYANDOTTES win the leading prizes at the leading shows. At Boston, 1898, they won first and second on hen, first and second on pullet, first and fifth on cockerel, and first on breeding yard. I did not enter any cocks. Send for catalogue and other records. Eggs, \$3 per 13; \$5 per 26. FRED. BORMAN, Danbury, Conn.

SILVER LACED WYANDOTTES exclusively. Ten years' experience with this breed alone and I think I have as good stock as any one, although my prices are not as high as some. If you want either fowls or eggs write me and I will do my best to please you. C. N. GILBERT Flint, Mich.

SILVER WYANDOTTES EXCLUSIVELY. Large and blocky, fine combs and lacing. Won their share of prizes. Catalogue of Silvers and Poultry Supplies, free. CHAS. R. SWAIM, Zionsville, Ind.

COCHINS

FOR SALE.—Our entire lot of Buff Cochins to quit the business. At Hagerstown, '97, won 1st, 3d, and 5th on pullet, 1st cockerel. Hagerstown, '98, won 2d pen, 1st and 4th cockerel, 1st and 4th pullet, 1st, 2d, and 3d hen. A. W. RUDY & SON, Hagerstown, Md.

MINORCAS

BLACK MINORCAS EXCLUSIVELY, (North-up strain). By importing new blood in my breeding yards every year my birds are kept up to the highest standard of perfection. Stock and Eggs for sale. Hatch guaranteed. E. D. CROUCH, 1013 G Street, S. E., Washington, D. C.

BLACK MINORCAS.—We have some grand youngsters cheap, quality considered, if taken soon; also Light Brahmas, B. Langshan Bantams, and Pit Games. Write us.
W. D. HARRILL & CO., Ellenboro, N. C.

POLISH

POLISH. S. F. Gulliford, Akron, Ohio. Importer and breeder of White Crested Black, Bearded Silver, Bearded Golden, and Bearded Buff Laced Polish, also Silkies of the finest quality. It has been my aim for many years to breed these beautiful fowls to the highest standard of perfection. My show record stands as evidence. Birds for sale at all times and eggs for hatching in season.

HOUDANS

HOUDANS EXCLUSIVELY for 20 years. Breeding stock and show birds at reasonable prices. Large White Holland Turkeys fit for the show-room. Eggs in season. G. A. HOBART, Chittanooga, N. Y.

LANGSHANS

BLACK LANGSHANS EXCLUSIVELY.—Fine, large, vigorous stock, good color and true shape. A limited number of settings from best breeding pen at \$3 per 15. A. M. CORDRAY, 752 Carroll Ave., Waverly, Baltimore, Md.

F. C. BEACH, Plain City, O., breeder of Black Langshans exclusively. Eggs, \$1.50 per 13. Birds for sale.

FOR SALE.—Crystal Strain of White Langshans, cockerels and pullets. Eggs in season. Any wishing this noted strain will do well by corresponding with J. W. TEDRICK, Williamson, Pa.

BANTAMS

WHITE COCHIN BANTAMS, Black Cochin Bantams, Buff Cochin Bantams—Young stock for sale bred from New York and Boston winners. No circulars. No eggs. DR. WM. Y. FOX, Taunton, Mass.

HOW IS THIS? Washington, Hackensack, Elmira, and West Chester, Hartford, Boston, and New York, 30 entries, 34 prizes on Silver Sebright Bantams. Stock for sale. Sell no eggs A. C. TREICHLER, M. D., Elizabethtown, Pa.

AT WASHINGTON, D. C., won 15 prizes on 15 entries, on Golden and Silver Sebrights, Silkies, Bearded and Non-bearded White Polish, Buff, White, Black, Partridge, and Cuckoo Cochins, Brown Red, Red Pyle, and Birchen Game Bantams. No eggs. Stock for sale. W. W. WALLICK, York, Pa.

GOLDEN AND SILVER SEBRIGHT, BLACK Rose Comb, Silky, White Crested, White Polish, White, Black and Black Tailed Japs, Buff, Black and White Cochin Bantams; Fantails, White, Colored, Saddles, Tails and Splashes. Write for wants. My prices are low. Stock first class. IRVIN S. MILLER, 397 Chew St., Allentown, Pa.

BEAUTIFUL COCHIN BANTAMS—Buff or White, at \$2 per pair. WM. M. CONNERS, Box A, Weston, Somerset Co., New Jersey.

SPANISH

BLACK SPANISH—1st and 3d Madison Square, 1st and 3d Rochester, and 1st, 2d and 3d Wilkes Barre, in 1898. None better. Also breeders of Brown Leghorns (Howell and Forsyth stock.) Eggs, \$1.50 per 13; \$2.50 per 26. Satisfaction guaranteed. J. W. RAEDER & SON, 57 Ross St., Wilkes Barre, Pa.

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CHAMMERSCHMIDT, S. Buffalo, N. Y., headquarters for large-size Belgian Hares, bred up to standard size, color and weight. Will sell for a short time only. Bucks, 9 mos. old, at \$1; Does, \$1.50 each.

FANCY PIGEONS

G. A. FICK, 1300 N. Washington Street, Baltimore, Md., breeder of prize winners, Magpies and Swallows in all colors. Prices reasonable considering quality of stock.

25 PAIRS WHITE FANTAILS at \$5 and upwards a pair, bred from imported and best American strains. E. A. HOLBROOK, Winchester, Mass.

BLACK FANTAILS. One pair of elegant Fans at a rare bargain. Cock very stylish, elegant tail. Winners of first and cup at Springfield, and winner of first at Peoria. A fine hen for a mate. The pair only \$5. W. J. LINCOLN, Mt. Pulaski, Ill.

PLEASANT VIEW PIGEON LOFTS. Homers of all the leading strains. Dragons, all colors, young and old birds for sale at all times at low prices. Guarantee to please. J. B. HOFFMAN, Sanatoga, Pa.

POUTERS, ARCHANGELS, MAGPIES, Jacobins, Inside Tumblers, Dragons, and Homers. Many show birds among them. I guarantee birds as represented or refund money. Stamp if convenient. J. W. TEDRICK, Williamson, Pa.

FOR SALE, EXHIBITION BIRDS in Pouters, Carriers, Blondinettes, Satinettes, Silverettes, Turbits, Frillbacks, Swallows, Snells, Archangels, Dragons, Tumblers, Moorcaps, Magpies, Owls, Nuns, Bruner Pouters, and Black Baldhead Tumblers. Satisfaction guaranteed. J. H. MEHRING, Littlestown, Pa.

WILLIAM GOODMAN, 509 South Front St., Milton, Pa., offers Turbits, Owls, Snells, Pouters, Fantails, Rollers, Magpies, Booted and Muffed Performing Tumblers. Will exchange for Black, Red, etc., Yellow Muffed Tumblers, Snells, or Kodak.

I HAVE FOR SALE a few high-class birds in Barbs, English Carriers, White Pouters, Archangels, Owls, Magpies, Jacobins, Blondinettes, Satinettes, Bluettes, and White Homers; also Abyssinian, Peruvian, and Smooth-coated Guinea Pigs; or will exchange for good Black or Yellow Fans, Trumpeters, Black Pied Pouters, or Angora Cats. Correspondence solicited. W. M. ANDERSON, Palmerston, Ont.

TRUE WHITE HOMERS and White Fantails. 10 pairs W. Homers \$1.50 per pair, sure money makers; 1 Red Fan hen \$1; 5 fine White Fan hens at \$1 each. **RICHFIELD PIGEON LOFTS,** N. S. GRAYBILL, Prop., Richfield, Pa.

WHITE FANTAILS, JACOBINS, AND Wing Turbits, all colors; as fine as the finest. My Jacobins won second, Hagerstown, '96; second, Elmira, '97; and first, New York State Fair, '98. White Fantails and Wing Turbits won first, New York State Fair, '98. Satisfaction guaranteed. H. C. FOXTON, 416 Hamilton St., Syracuse, N. Y.

PIGEON BREEDERS! YOUR ATTENTION! Have for sale small round yellow corn, raised expressly for pigeons. No sharp points to injure the crop. Nothing better. Sample by mail, 15c. A. J. BARGAHISER, Rockford, Ohio.

FANCIERS ATTENTION! I have some bargains in Barbs, White, Black and Dun Blondinettes; African Owls; Archangels; Solid Turbits; Magpies; Nuns; Pigmy Pouters; Runts; Hen Pigeons; White Scandinavians, imported; Dragons; Ice Pigeons; Barless Swallows, all colors, Blues and Silvers; White, Black and Red Barred Magpie Tumblers; Saddle Tumblers; Gorse Stock; Solid Tumblers, Walton's Stock, long muffed. Also Buff, Black and White Cochin Bantams, \$5.00 per trio. For full description and prices, address with stamp, C. F. CHAMBERLAIN, 1014 Bartlett St., Milwaukee, Wis.

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HOMING PIGEONS mated for flying or squab breeding, \$1 and \$2 per pair. Books on Breeding and Training 25 cents; stamps; Money in Squabs, 20 cents; Pigeon Queries, 25 cents; Dogs, Rabbits, Cage Birds, Poultry, 10 cents each. Seamless and open aluminum leg bands, pedigree blanks and cards. Catalogues free. F. L. HOOPER, Station D, Baltimore, Md.

GREAT SACRIFICE SALE for alteration. For Squab raising, thirteen large Dutchesse, \$7.50. Twenty well-marked Homers, \$7.50. All tried, healthy breeders. **DE LACHAN RANCH,** Crystal Lake, New Jersey.

ROYAL RED SEAL LOFTS, 1357 Wilson Ave., Cleveland, Ohio; breeder, importer, and flyer of the speediest strains of Homing Pigeons exclusively. My annual catalogue, containing pedigrees of 30 pairs of choice breeders mailed on application. Stamp if convenient. A grand lot of record breeders for sale.

HOMERS—Bred from record stock from the best lofts in this country. At only \$1 per pair either old or young. Satisfaction guaranteed. W. J. LINCOLN, Mt. Pulaski, Ill.

HAVING BRED Racing Homers for the last 20 years, to make room for Naccesfield Tipplers will sell 20 pairs of mated Homers bred from Mons Weggs strain, of Belgium, with records 550 miles in one day, 8 pairs bred from my World Fair flyers to Baltimore, 820 miles in 4 days, 6 hours; 12 pairs with record 239 miles in 6 hours; 6 pairs with record 107 miles in 1 hour and fifty minutes, from \$1 up to \$3 a pair. Belgium Hares \$1.50 to \$4 a pair. No catalogues this year. Stamps for reply. **EUGENE STODDARD,** President of the Star Homing Club, Hagerstown, Md.

VERDEMONT HOMING LOFTS.—A choice lot of speedy and reliable trained Homers for sale at \$1 per pair while they last. Bred from record birds from a number of the most noted strains. Pedigrees given and satisfaction guaranteed. C. E. BIRELY, Ladiesburg, Md.

HOMING PIGEONS.—Choice mated birds of the best strains for flying or squab breeding, 90c a pair; \$5 for 6 pairs. Stamp for reply. W. A. B. HALBACH, Lancaster, Pa.

MISCELLANEOUS

SHOW BIRDS A SPECIALTY. Single and Rose Comb White Leghorns, Single Comb Buff and Brown Leghorns, White Rocks, White and Golden Wyandottes, Partridge Cochins, Pekin Ducks. Breeding stock, \$1. Circulars. P. L. DWIGHT, De Ruyter, N. Y.

LIGHT AND DARK BRAHMAS, Buff Cochins. S. S. Hamburgs, 2 pens Pit Games, 4 Indian Game hens, Black Minorcas, and Buff Leghorns for sale. Black, Red, and Yellow Magpies, and Blue Beards. Will exchange for poultry. A. C. FULTON, York, Pa.

COUNTY LINE POULTRY FARM, breeds prize-winning Barred and White Plymouth Rocks, Light Brahmas, Pekin and Rouen Ducks, and Toulouse Geese. 400 head of young stock for sale. Circular free. A. G. BARLOW, Box 51, Millers, N. Y.

EGGS FOR HATCHING. Strictly pure-bred W. Wyandottes and W. P. Rocks, 500 grand birds with average egg production of 200 each, per year. Price of eggs, \$1 per 13, \$4 per 100. **WEEKS & THOMPSON,** Peterboro, N. H.

SHERWOODS—the Ideal Fowl—for fancier farmer, or market, the hardiest and best general purpose fowl ever introduced. My stock is from originator of breed, therefore pure. Prize winners at Hamilton. Eggs in season. Circular free. DR. CHARLES B. TURNER, Snickersville, Va.

J. R. PIPER, JR., 10 Market St., Morristown, N. J.—Prince of America's Light Brahmas and Silver Laced Wyandots. Piper's Celebrated Games of many varieties, also other kinds of stock for sale. Eggs, \$2 and \$3 per setting. Write.

35 PRIZES including first on White Eggs at Boston, 1898. B. Minorcas, B. P. Rocks, W. P. Rocks, White Wyandottes, and Black Langshans. Eggs, \$2 per setting. Circular. W. T. GREENE, Hopkinton, N. H.

WANT ROOM.—10 Buff Brahma pullets and cockerels for \$15; 10 Buff Rocks and cockerel for \$10; 15 Partridge Cochin yearlings and cockerel for \$15. E. A. STANDISH, Andover, Conn.

Excelsior Wire & Poultry Supply Co.,
28 Vesey St., New York.

NO. "A" BANNER OINTMENT. A positive cure for Chicken Pox and Swelled Head. **25c** per bottle postpaid.

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MATHIAS WOELFLE, Silver Creek, N. Y., has for sale Golden Laced Wyandottes, Blue Andalusians, Pouters, White Fans, Red Jacobins, Parlor Tumblers, White Dragon Pigeons; all bred from premium stock. Write for wants.

BARGAINS!!! Barred Plymouth Rock hens, or young stock, \$2 per pair; \$5 per six; \$10 per fourteen. Narragansett Turkeys and Pekin Ducks. Enclose stamp. F. K. W. PLEASURE POULTRY YARD, Opekiska, W. Va.

WHITE WYANDOTTES and S. C. White Leghorns. Fine stock for sale. Prices reasonable. Two very choice White Plymouth Rock cockerels, \$2.00 each. Reliable Incubators and Brooders for sale cheap. K. E. SPEAR, Couewango, N. Y.

MOCKING BIRDS, Opossums, Jack-Rabbits, Blue Mexican Quails, Pouters, Fans, Jacobins, in all colors. 12 pairs Imported German Tumblers. Genuine Hennies. Brown Red Shufflers. Stamp for particulars. C. A. LAMB, Dallas, Tex.

98 BREEDERS.—10 hens and cock, S. C.; 8 hens and cock, Rose Comb Black Minorcas; 10 hens and cock Partridge Wyandottes, \$1 apiece; cock and hen, White, \$3. L. H. BOWLBY, 31 Belvidere Ave., Washington, N. J.

50 FINE LARGE BLACK LANGSHAN AND Buff Plymouth Rock cockerels, from first-prize stock, for sale cheap. Also a few trios of yearling Black Langshans at five dollars \$5.00 per trio. GEO. H. BENTON, 356 Belmont St., Manchester, N. H.

DR. H. D. KNIGHT, Lancaster, Pa., breeder of (Wyckoff strain) S. C. W. Leghorns and choice B. P. Rocks. Eggs in season. Prices reasonable.

COCKERELS FOR SALE at \$1.25 each. 5 White Faced Black Spanish; 4 Buff Laced Polish; 4 Hondans; 3 Rose Comb White Leghorns; 5 Single Comb White Leghorns; 3 Black Tailed Japanese Bantams. High-class thoroughbreds. **WARD A. LONDON**, 607 West Church Street, Elmira, N. Y.

FOR SALE from the best of stock, 200 Light Brahmas, pullets \$1 each, hens \$1.50 each, cockerels \$2 up, cocks \$5 up; 100 Barred Plymouth Rocks, pullets \$1 each, hens \$1.50 each, cockerels \$2 up, cocks \$3 up; 100 Buff Cochins, pullets \$1.50 each, hens \$2, cockerels \$2 up, cocks \$5. Eggs, \$1 per 13. **B. TRANTER**, Box 148, High Bridge, N. J.

WHITE WYANDOTTES bred in line ten years. Superior Rose Comb White Leghorns. First-class pair Crested Black Fantails \$3, hen especially fine. **J. PERRIN WILSON**, Grand Rapids, Mich.

PRINTING.—500 Cards, Envelopes, or Note Heads, \$1. Fine work, nothing cheap, but the price. Send 10 cents for 3 samples. **FANCY'S REVIEW**, Chatham, N. Y.

BUFF AND BROWN LEGHORNS, Black Minorcas, 4 females, 1 male \$4; 2 pens White Rocks, 5 birds \$5; 2 pens Light Brahmas, 6 birds \$8; 4 Dark Brahma hens 75c each; 1 trio Buff Cochins \$4; Buff and Brown Leghorns, and Black Minorca cockerels, 75c, \$1, and \$1.25. **A. C. FULTON**, York, Pa.

WHITE, SILVER, GOLDEN, AND BUFF Wyandottes and Barred Plymouth Rocks. I have 4 Silver Gray Dorking hens at 75c each. Cockerels of Wyandottes and Rocks. **D. A. FIROR**, Graceham, Md.

FOR SALE

FOR SALE.—Buff Leghorns, Buff Plymouth Rocks, and Buff Wyandottes. If you want to win at the leading poultry shows you can't afford to be without my stock; they are strictly first class and solid buff; also a few Partridge Wyandottes for sale at reasonable prices. Address, **WALTER COX**, 64 Grand Ave., Washington, N. J.

FOR SALE.—500 pullets and cockerels, White and Buff Leghorns, \$1 each; Black Minorcas, \$1.25 each; White and Buff P. Rocks, \$1.50 each. **L. BROWN**, Sturbridge, Mass.

FOR SALE.—Bronze and Half Wild Turkeys. Hardy and prolific. 25 White Wyandottes; 15 W. P. Rocks; 25 Brown Leghorn hens; 200 B. P. Rock pullets. Low prices, quick sales. **HADLEY BROS.**, Peterboro, N. H.

FOR SALE.—Two Monarch Incubators, largest size, in perfect running order. Price, \$50 each, or \$75 for the two. Address, **W. STEARS**, 104 Lexington Ave., Brooklyn, N. Y.

SUPPLIES

POULTRY SUPPLIES of every description from a leg band to a bone cutter. Prices lower than ever. Illustrated catalogue free. **I. F. SCHOTT**, Box 175, New Pittsburg, Wayne Co., Ohio.

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BUFF COCHINS EXCLUSIVELY for 20 years. **GEO. BALL**, 24 Milton Ave., Rahway, N. J. Eggs, \$2 per 13.

TOO LATE FOR CLASSIFICATION

BANTAMS BY THE HUNDRED. I want to sell 100 pairs of Buff, Black, and White Cochins Bantams, price \$2 per pair. **ROWLAND G. BUFFINTON**, Box 677, Fall River, Mass.

FINE BUFF LEGHORNS, (Arnold's strain,) and Golden Wyandotte (Kellar strain,) cockerels for sale with score cards and prices that will just suit you. Eggs in season, \$1.50 per setting. Try us. Satisfaction guaranteed. **C. F. BLACKMON & SON**, 116 South St., Painesville, Ohio.

LOOK AT THOSE NUGGETS! S. B. MASON breeds them. Buff and White Wyandottes, Buff, Brown, and White Leghorns, Buff and Barred Rock, S. S. Hamburgs. Stock for sale. Maytown, Pa.

GOLDEN BUFF ROCKS (Burdick). Pen direct from Foster, who won 1st on birds at Hagerstown and Johnstown. Good breeding pullets for sale. Eggs anytime. Write, **J. D. STUDLEY**, Gowanda, N. Y.

50 CHOICE WHITE WYANDOTTE COCKERELS at \$1 to \$2 each. 50 choice W. Wyandotte pullets at 75c to \$1.50 each. **WM. H. HOWERTON**, Laurel Hill, Va.

SILVER LACED WYANDOTTES AND Barred Plymouth Rocks of the first prize-winning strains in America. Eggs only \$2 for 15. **JOHN A. CULLUM**, Box 113, Ridge Spring, S. C.

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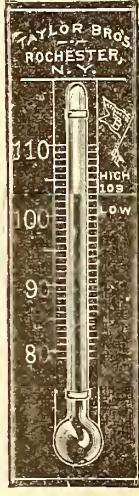
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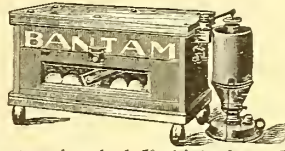
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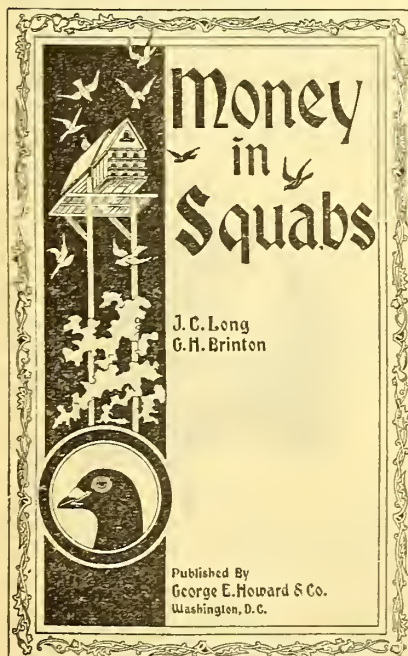
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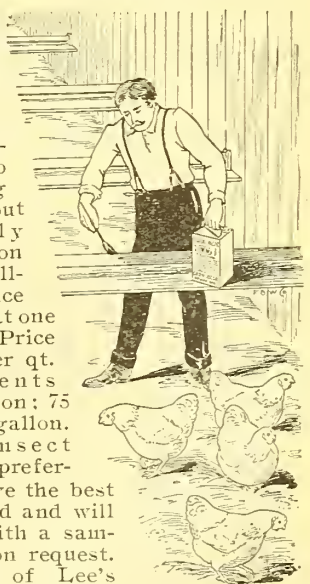
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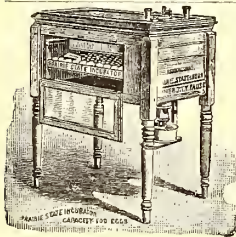
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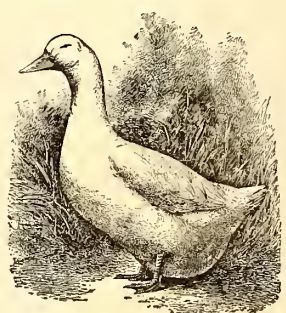
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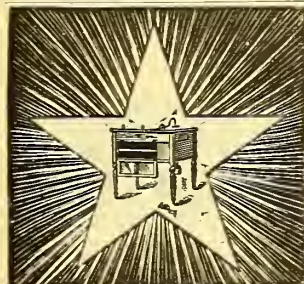
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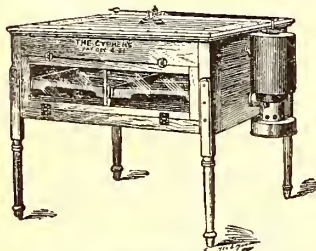
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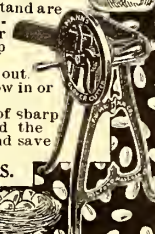
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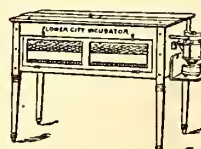
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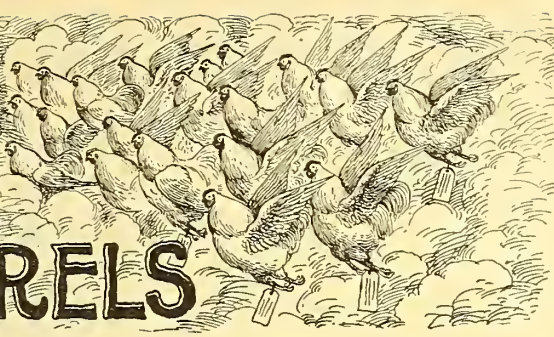
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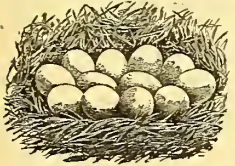


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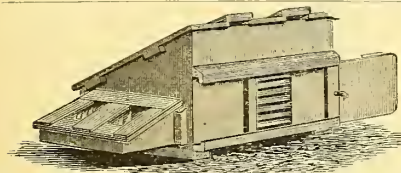
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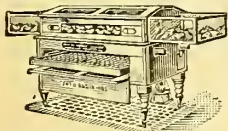
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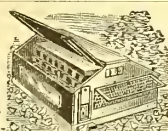
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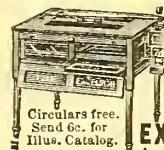
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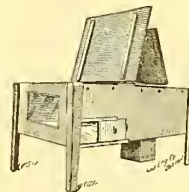


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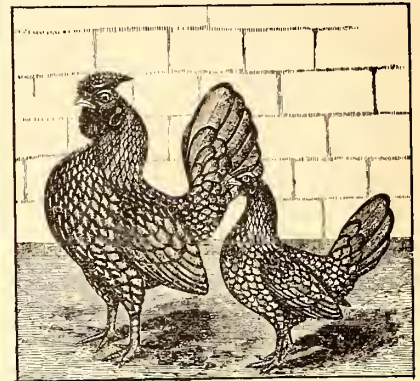
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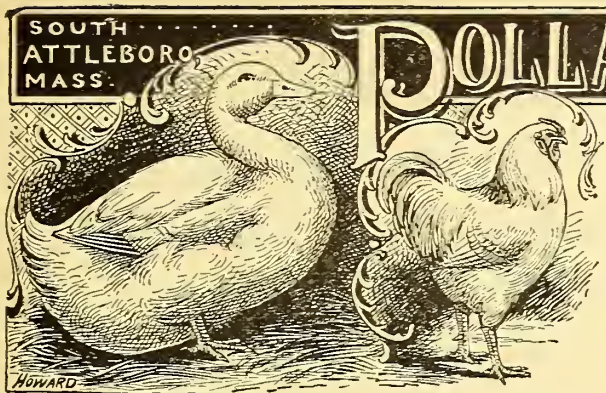


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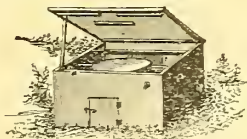
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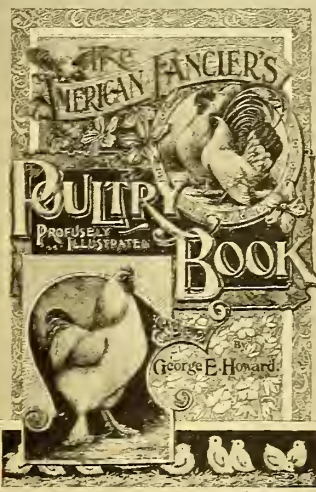
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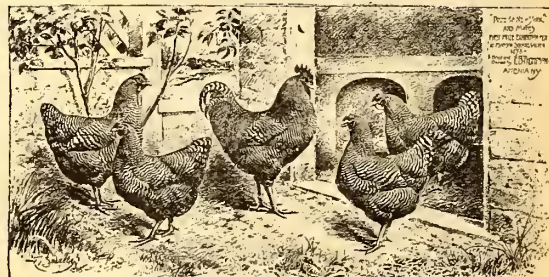
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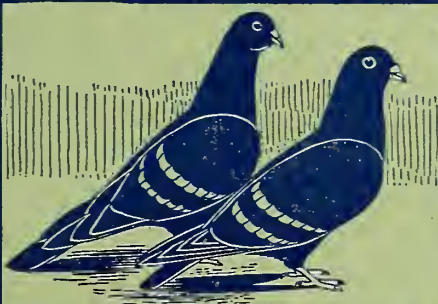


First-Prize B. Rock Pen at New York, February, 1898.

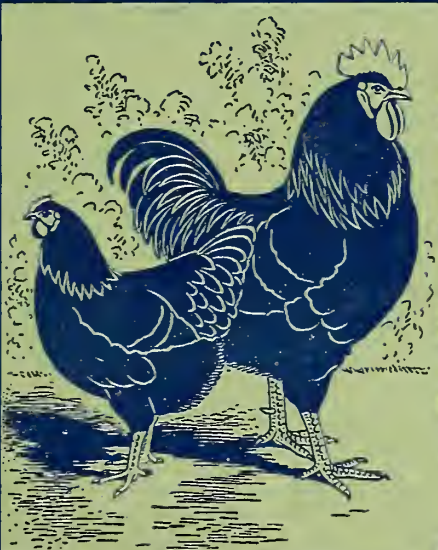
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The Feather



PIGEONS.



POULTRY.

WASHINGTON, D. C.
Vol. IV. FEBRUARY, 1899. No. 5.

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A dose gives immediate relief, and a frequent dusting will keep a fowl clean, comfortable, and profitable. If a little could be placed in or around their tail-feathers while at roost, say once each month, there would be no need of handling each bird separately. A handful in each nest will keep the layers all right, and nothing but lice and bad smells are killed with this powder. Little chickens are often victims of head lice. They fasten their fangs into the cranium of the little "peepers," when from two to six weeks old, and suck the very life from every chick, unless removed by force, or an application of Lambert's Death to Lice.



DEATH TO LICE OINTMENT

Is an old English remedy for head lice on children, and it works equally effectually on chickens. A hundred can be treated in, say, ten minutes, without affecting the growth of a chick in any way.

Mites or spider lice often take possession of a henhouse or brooder. They hide in cracks and crevices by day, and crawl out on their victims at night, feasting on their blood until the lice are red as lobsters in the morning.

DEATH TO LICE SPECIAL

Is a powder designed to be dissolved in kerosene or coal oil, and used as a paint for henneries; or it can be diluted with water for a brooder wash, etc., resulting in clean quarters and healthy inmates. These remedies are manufactured by a practical poultry keeper, whose chickens grow and whose poultry farm is a profitable one. No one has finer birds or gets better results from them. Keeping the birds clean and comfortable is the only secret of success. Ten cents in stamps will secure a liberal sample of either of the above remedies; twenty-five cents will bring all three to your post office or door.

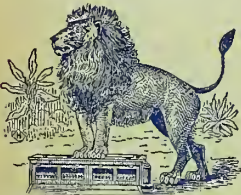
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Established in 1874.

Chas. McClave, Owner, Box A, New London, O.

Veteran breeder of prize-winning Black Minorcas, P. Rocks, L. Brahmas, P. Cochins, Langshans, Leghorns, Wyandots, Polish, Bantams, Bronze Turkeys, Geese and Ducks. Over 3,000 prizes won by my birds. Hundreds of choice birds for sale at all times. Prices reasonable. Send for fine catalogue telling all about my birds. All stock farm grown, strong, vigorous and healthy. Low rates by express, prompt service, best quality and satisfaction to all.



The Two Monarchs....

Of the two, the MONARCH INCUBATOR is the better, because it is a practical, successful machine, and one that will give greater satisfaction than any other on the market.

All the large New England poultry growers use them, many firms using from 15 to 25 of our 600-egg size. More than 1,000 barrels of dressed poultry shipped to market each season, within a radius of a few miles of our factory, all hatched in "Monarch" Incubators.

Send a 2-cent stamp for illustrated catalogue.

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GREAT SACRIFICE SALE

PEACH GROVE POULTRY AND STOCK FARM.

The prize winners' Home.

We have now 1,000 youngsters and have concluded to give the readers of this journal a snap in offering our breeding stock at a great sacrifice; 2 breeding yards of Buff P. Rocks, 10 hens and cock \$15 a pen, one \$20; 6 hens and cock, Buff Wyandots, \$10; 8 hens and cock, White Wyandots, \$15; 6 hens and cock of Black and White Langshans, \$12 each; 8 hens and cock, Buff Leghorns, \$15; 6 hens and cock, Mottled Anconas, \$25. Grand Homing Pigeons of the finest breeding quality, 3 pairs young \$2. Be quick; first come, first served. Mention The Feather.

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OUR WHITE WYANDOTTES

1st cock, 2d hen, 2d cockerel, 1st and 2d pullet, at Great New York show, 1899.
LEBANON POULTRY YARDS,
Lebanon, Pa.

Potomac View Poultry Farm,

R. C. GRINDER, Prop., Rosslyn, Va.

Breeder of
High-class

**B. Plymouth Rocks,
Buff Leghorns....**

EGGS:
\$2 per 15.

At Washington, D. C., January, 1899, I won 1st premium on Buff Leghorn cockerel. Stock bred for utility as well as fancy. Satisfaction guaranteed.

...BLACK MINORCAS...

Invincible Wherever Shown.

At the Buffalo show, January, 1898, on entry of 16 birds, won—1st and 2d cock, 1st, 2d, and 5th hen, 1st and 3d cockerel, 1st 2d, 3d, and 4th pullet, 1st pen, and three \$10 specials for best cock, hen, cockerel, and pullet.

At the great Rochester show the week following, on an entirely different exhibit, my birds won—3d, 4th, and 5th cock, 1st, 4th, and 5th hen, 1st and 2d cockerel, 1st, 2d, 3d, 4th, and 5th pullet, 1st pen and \$40 gold watch for best 10 birds.

A few good females yet for sale.

BUFF PLYMOUTH ROCKS,

Won at the recent great Rochester show—1st and 4th cock, 1st and 2d hen, 1st, 2d, and 3d cockerel, 4th pullet, 1st pen, and special for best display of 10 birds.
Eggs, such as I use for my own hatching, \$3 per setting; 2 settings \$5.

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Mica Crystal Grit (100-lb bag)	\$ 75
Crushed Oyster Shells (100-lb bag)	75
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Prairie State Incubators, Mann's Green Bone Cutters, Lee's and Lambert's Lice Killer, cheap.	
Write for large illustrated catalogue of Poultry Supplies, free.	
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\$2 Is just about one-half the value of **\$3**

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Cockerels this season. They are exceptionally fine and will be sold at these prices if purchased at once.

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To make room, 75 cockerels, the blood of Conger, Leffel, Hawkins, and Thompson—White Leghorn; from 1st and 2d-prize winners of New Albany, Ind., show in '98. Minorcas from Northrup strain, scores from 90 to 94½. Took first on B. P. R. cockerel at New Albany show in '99; 3d on Black Minorca, Felch, judge. Prices reasonable. Write your wants. Birds will score in 90's.
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Choicest White Leghorns

A few 92 to 94-point W. L. Cockerels, \$3 to \$6. My own scores. Birds returnable if not as represented. R. C. Black Orpingtons, \$10 per trio. Stock limited.

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Our 1898 catalogue tells you all about the World's Greatest Incubators and Brooders. Send for one. All machines warranted.

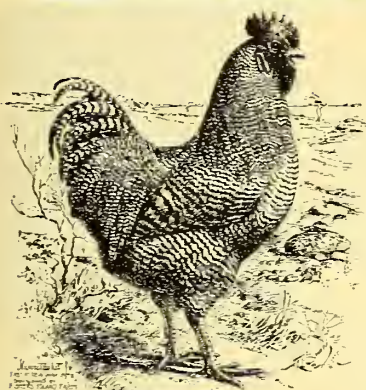
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BARRED PLY. ROCKS

From best Blood in America.



"MUNNATAWKET JR."
First Cock at New York, 1898.

White and
Buff Rocks....

Bronze and
White Turkeys.

Cornish
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Indian Games...

Pekin Ducks.

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Fine Bucks and Does For Sale.

WON at Pittsburg, 28 firsts, 14 seconds, and 12 specials.
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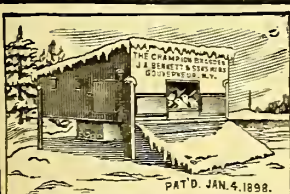
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LOOK UP OUR RECORD AT ALL THE BIG SHOWS.

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We breed Red Caps, Houdans, Indian Games, Partridge Cochins, Golden Wyandottes, S. S. Hamburgs, Golden P. Hamburgs. Eggs \$2 per 15. Have a few dark Brahma Cockerels and Pullets for sale; will win in any show.

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when everything is frozen up tight is the time to test a brooder. It is then that the poultryman wishes to be sure that he has made no mistake in buying a machine.

THE \$5.00 CHAMPION BROODER IS KNOWN BY ITS WORK.

It fills every requirement. It has stood the zero test repeatedly in the worst blizzards of years. It brings its chicks through every time under all conditions. Endorsed by the very best authorities. Send for descriptive catalog and testimonials.

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For Four Hundred Dollars (\$400) the entire flock of Seventy-five (75) Birds and Good Will and Trade of the Greatest Strain of birds that ever stood in America.

The Improved "Full Feathered"

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All Imported Stock.

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GOLDEN WYANDOTTES..

From the best prize-winning strains in the country. Beautiful BLUE ANDALUSIANS that are winners wherever shown. We have bred nearly every known breed of fowls, and have settled on the two above varieties as being the best for every purpose. Write for list of prizes and prices. Chicks for sale after October 1st.

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For \$5, Colchis Farm of Farmer, N. Y., will sell 1 trio White Muscovy Ducks that are beauties, and they never cry

Quack! Quack! Quack!

Barred P. Rocks,
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Eggs—
\$1 per 13,
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Pekin Duck Eggs, \$1 per 11; \$6 per 100.

B. P. R. Incubator Eggs, \$2 per 100.

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Aids Digestion and Prevents Disease.

Two sizes, fowls and chicks, 100 lbs. 75c; 500 lbs. \$3. Crushed oyster shells, two sizes—100 lbs. 75c; 500 lbs. \$3. Woodchick Farm cut clover hay—100 lbs. \$2; 50 lbs. \$1. Woecker clover meal—100 lbs. \$2; 50 lbs. \$1. Orr's chick meal—100 lbs. \$2.50; 50 lbs. \$1.50. Orr's egg producer (a food)—100 lbs. \$1.50; 50 lbs. \$1.00. Cracked wheat (first quality)—100 lbs. \$2.25; 50 lbs. \$1.25. Beer scraps—100 lbs. \$3; 50 lbs. \$1.75. Charcoal—10c per lb. Bowker's animal meal—100 lbs. \$2.25; 50 lbs. \$1.25. Bradley's superior meat meal—100 lbs. \$2.25; 50 lbs. \$1.25. Smith & Romaine's B. B. B.—100 lbs. \$2.25; 50 lbs. \$1.25. Cracked peas—100 lbs. \$3.00; 50 lbs. \$1.50. Poultry wire netting cheap; send for price. American Standard of Perfection, postpaid. \$1. Incubators, brooders, etc., at factory prices. White Wyandottes and White Indian Games—For the farmer, broilerman or fancier they are unexcelled. White Crested Black and Buff Laced Polish—The most beautiful of all the feathered race. Light and Dark Brahma Bantams—The king of all Bantams; imported stock; grand quality. Send for booklet and special ton rates.

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Breeder of Light Brahmas, Partridge Cochins, Barred and White P. Rocks, Bantams; Buff Cochins, White Japanese, and B.B. Red Games. Also a choice flock of Pekin Ducks.

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First-Prize Pen, Madison Square Garden, 1898,

WHITE WYANDOTTES.

Will sell a limited number of eggs from these birds at \$5 per 15.

Also eggs from a very fine pen of females, headed by the 2d-prize cockerel (same show) at \$3 per 15.

Silver Duckwing Leghorns,

(The buff-egg strain.) \$3 and \$5 per 15 eggs.

There are no finer birds of these two varieties in this country, and you will positively receive eggs from the birds you order.

Come and see them!

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Steel tested Pit Games for sale.
Enclose stamp for circular.

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Breeder of Barred and White P. Rocks, S. C. Brown Leghorns, Lt. Brahmas, White Wyandottes, and Pekin Ducks. Vigorous stock, early and prolific layers. Stock and eggs for sale in season. Eggs, \$1 per setting. Satisfaction guaranteed.

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1899 BANDS—The official enamelled bands of the Tumbler Clubs are furnished by me at 4 cents each, or 45 cents per dozen, without initials, numbered from 1 up. Aluminum bands for pigeons and poultry, will not tarnish, always the same color; with year and numbered 1 to 100, \$3 per 100; with year only, \$1.50 per 100; with initials, 25 cents per 100 letters. Send 2-cent stamp for circular and sample. Remittances must accompany order. Enamelled bands, 45 cents per dozen.
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3 pens mated for exhibition cockerels. 2 pens mated for exhibition pullets. They are barred to the skin, fine shape, perfect combs, fine eye color. To introduce our stock we will sell eggs from these pens for \$2 per 13; will refund 50 per cent of your money within 6 months if stock is not satisfactory.

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Save Your Money If You Would Get Rich....

I breed BARRED (not speckled) P. ROCKS and LIGHT BRAHMAS EXCLUSIVELY, and have as good stock as time, money, and best breeders in this country can produce. Am now booking orders for eggs to be delivered when you say, at \$2 per 15; \$3 per 30; and a fair hatch guaranteed. A few good cockerels, with score card by McClave, cheap. All orders and correspondence given my personal and prompt attention. Visitors welcome every day except Sunday. "Remember the Sabbath day to keep it Holy." Satisfaction guaranteed or your money back. Good pen S. S. Hamburgs, with cards by McClave cheap to close out. Yours for better poultry,

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At Madison Square Garden, Feb., 1898,

MY Barred Plymouth Rocks

Again show their superiority. Winning the much coveted prize of 1st on cockerel, Grand Gold Special Prize for best P. Rock, any color, in the show; also 3d and 4th Hen. Send for my circular (free) giving my winnings at same show for past nine years, Columbian Exposition, Washington, D. C., etc.
Eggs, \$4 per 13; \$7 per 26; \$9 per 39.

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**The Bantam and S.C.B. Leghorn Breeder**

Of 25 Years' Experience.

Offers you Eggs and Stock from Silver and Golden Sebrights, Black and White Cochins, Bearded and Plain White Polish, and Black R. Game Bantams. High-class S. C. Brown Leghorns, Buff Laced, W. C. Black, Golden, Silver, and White Polish. Eggs, \$3 per 13; except Bearded White Polish Bantams, \$10 per 13.

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English Beagle Hounds and Cocker Spaniels (Red and Black). All our Beagles are hunters. Many of them are prize winners. All our Cockerers are prize winners or are bred from winners. 5 grand Beagle dogs, and 5 superb Cocker dogs at stud. Address,

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Barred Plymouth Rocks. Pekin Ducks.

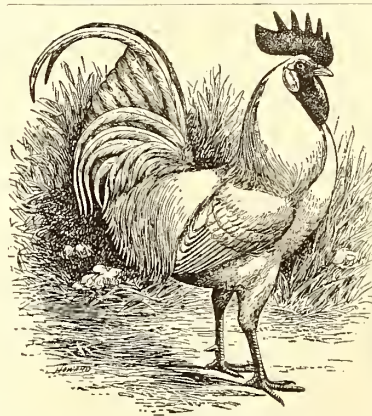
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Colony plan. Stock bred from two-year-olds, insuring size and vigor. Barred Rocks, \$1.50 each and upwards. Our Ducks are the equals of any ducks, \$1.50; drakes, \$2.

N. B.—Stock of higher feather merit matter of correspondence.

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America's Business Hen,

Have been carefully bred and improved for the past 18 years regardless of expense, and on the strictest application of the true principles of Leghorn breeding with a result that fully justifies their acknowledgment everywhere as **The World's Greatest Laying Strain of S. C. White Leghorns**, combined with the highest degree of excellence in Standard Qualities, Size, Strength, and Vigor, and layers of large, pure white, perfectly shaped eggs that command the highest premiums in the finest city markets.

Hundreds of unsolicited testimonials recently received from customers in all parts of the country testify, not only to their superior laying qualities, but also to the many victories and high scores awarded them in the show-rooms.

Good breeding stock in early cockerels and 1897-hatched hens yet for sale. Eggs for hatching from my choicest selections and matings only, the cream of over 1,200 carefully bred birds. No close inbreeding ever practised in my yards.

Eggs, \$2 per 15; \$3.75 per 30; \$5 per 45; \$10 per 100. Large illustrated and descriptive circular free

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"LADY MARTHA WASHINGTON."
1st at Hagerstown, '96.
1st at Washington, '97.

Barred Plymouth Rock Eggs

I have mated 5 pens this year that please me better than any I have ever had. I retained all my best females for breeding and have 50 in my pens. Mr. Calvin Rineholt, a man experienced in feeding for eggs and raising chicks, a man who could drink, eat, and sleep with chickens, will spend his entire time in my yards raising young chicks. I feel sure I can furnish good eggs, fertile eggs. I will duplicate orders where eggs prove not to hatch well. Eggs from best two pens, \$3 per 13; \$5 per 26. Eggs from 3 other pens equally as good for practical purposes, \$2 per 13; \$3.50 per 26; and \$5 per 39. If you will favor me with your order I will try and please you. For list of winnings refer to December and January number of THE FEATHER. Incubator eggs, \$3 per 100.

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Some incubators are made only to sell and were never intended to hatch chickens, and you pay for them only when fully satisfied. They are the easiest to handle; a child can run one successfully. We send the largest catalogue and best treatise on incubation and poultry culture published for 5c. Plans for Brooders, Poultry Houses, etc., for 25c. **WE SEND THE Von Gulin Incubators ON TRIAL**

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Mammoth White Holland Turkeys Large, vigorous birds that weighed January 10th 25 lbs. If you want show stock write me. Also Chester White Hogs. A fine lot of young and matured sows safe in pig. Send for folder and mention THE FEATHER.

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1st Prize Buff Leghorn
Cock, at N. Y., '98.

Valleyview Farm....



S. C. White and
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I still have a most choice lot of Leghorn cockerels, Whites and Buffs. Remember that these birds are all from New York prize winners. For breeding stock, if you wish to breed winners, they can't be beaten. Catalogue.

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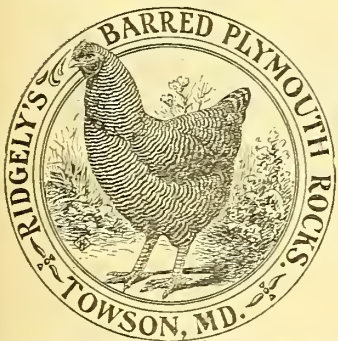
Made a Ten Strike

At Hagerstown, '98, winning 1st and 2d on cocks. These cocks won over birds that cost some people considerable of the "long green"; also 1st on pullet, and Oh!

1st, 2d, and 5th on Hens.

These with our winnings at Madison Square Garden, '98, and other warm shows, we think entitle us to a seat at the first table.

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is thoroughly interwoven but has long horizontal wires, which classes it as

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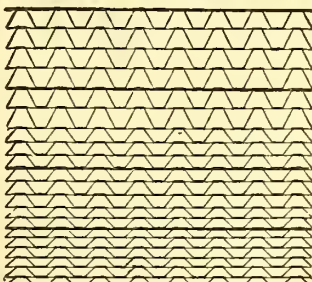
Each roll contains the famous M. M. S. trade mark.

None other genuine.

We are manufacturers also of the following famous fences:
CABLED FIELD AND HOG FENCE
with or without lower cable barbed. All horizontal lines are cables.

STEEL WEB PICKET FENCE ideal fence for lawns, parks, cemeteries, etc. Steel gates, posts, etc. Everything the best of its kind.

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Pat. July 21, 1896. Pat. July 6, 1897.



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Reliable Birds at

Reasonable Prices.

B. B. RED GAMES.

The grandest lot of chicks we ever raised. If you want birds with tremendous reach, fine snake heads, long thin necks, low close tails, combined with brightness of color, and hardness of feather, we can supply you. Also grand massive BUFF COCHINS, brothers and sisters to our winners at Johnstown, Brockton, Keene, Fitchburg, Boston, and Brattleboro. Cornish Indian Games, Pit Games, and Game and Ornamental Bantams.

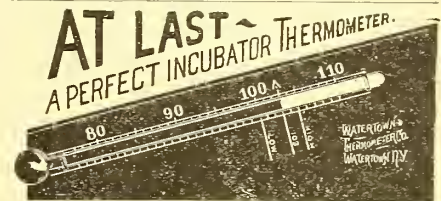
PEIRCE BROS., Lock Box P, Winchester, N. H.



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Box 127 C,
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Buff Ply. Rocks.

They have won World's renowned reputation. Clean sweep at World's Fair, and have continued to lead in this country and England. N. Y., '95, '96, and '98. Winning the Am. Buff P. Rock Club's Silver Cup for Best Collection at N. Y., '98. Exceptionable bargains now on in breeders.



The incline of the tube carries the mercury back into the bulb at lower temperatures. No erroneous readings. Bulb rests on two eggs, insuring the correct temperature. Every tube is seasoned. Costs no more than an inferior one. By mail—one, 75c., three, \$1.50.

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"The Yates" Incubator.

A reliable, fire-proof Hatcher, so ventilated as to maintain nature's moisture of the egg. Plans for indoor or outdoor brooder free with each machine. Send for catalogue.

MANUFACTURED BY
C. F. YATES,
GLOVERSVILLE, NEW YORK.

Clean Sweep.

At the recent New York State Fair, my Barred Plymouth Rocks won 1st cock, 1st cockerel, 1st pullet, and 1st pen, in competition with birds from four States. At Watertown, N. Y., the next week, they won every prize offered.

400 Grand Young Birds
For Sale at Reasonable Prices.

Also White P. Rocks, Buff Leghorns, and Pekin Ducks.

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Philadelphia, Jefferson Co., N. Y.

8 TO 2

Not quite "16 to 1," but sufficient to sustain our long-standing claim that our

S. C. WHITE LEGHORNS

BEST EGG-PRODUCING VARIETY KNOWN.
LARGE WHITE EGGS.

THE BEST GENERAL-PURPOSE FOWL.
BROWN=EGG STRAIN.

WHITE WYANDOTTES

— STILL LEAD ALL OTHER STRAINS! —

At New York State Fair, September, 1898, EIGHT of the ten FIRST PRIZES offered on our varieties were awarded to **KNAPP BROS., FABIUS, N. Y.**, 16 years before the public and at 37 of the leading shows, with HIGHEST HONORS every time.

We now have nearly 1,000 CHOICE BREEDERS and EARLY-HATCHED CHICKS. If you want fall or winter SHOW BIRDS and SURE TESTED BREEDING STOCK, at reasonable prices, LET US HEAR FROM YOU SOON.

Stamp for catalogue giving highest price record ever won by any breeder of any variety.

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UPLANDS POULTRY FARM,

Box 100, Station D, Baltimore, Md.

Exhibition Birds For Sale.

White Wyandottes,

As white as snow.

Barred Plymouth Rocks,

Clean, sharp, deep barring.

Partridge Cochins,

Correct color and penciling.

Light Brahmas,

Correct shape and penciled tails.

Our birds have won at Boston, Hagerstown, Washington, D. C., Mt. Gretna, Asheville, N. C. We can furnish you winners or prime breeders at reasonable prices. Satisfaction guaranteed or money refunded.

Agent for CYPHERS INCUBATORS for Baltimore.

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BREEDER OF —

Buff Leghorns and Cornish Indian Games.

MY STOCKS' best evidence of quality is their record of 97 prizes, 14 specials, won since August, '97, at Mt. Gretna, Carlisle, Hagerstown, Coatesville, West Chester, and Wilkes Barre.

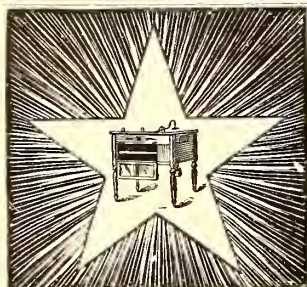
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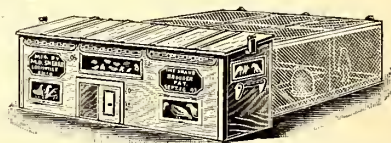


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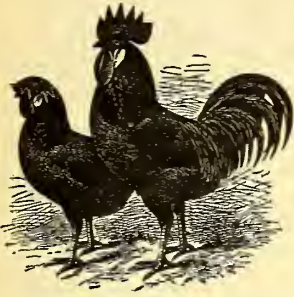
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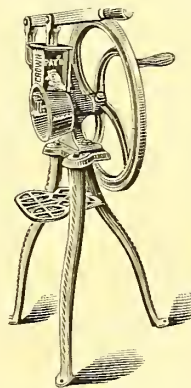
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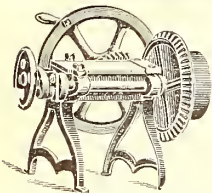
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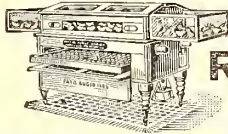
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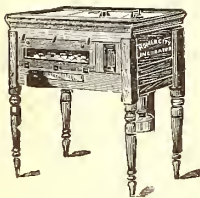
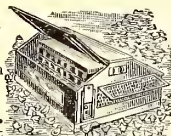
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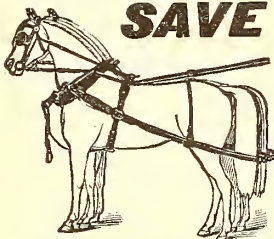
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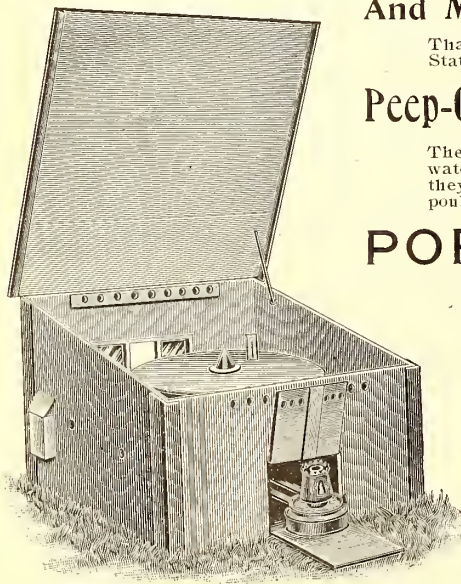
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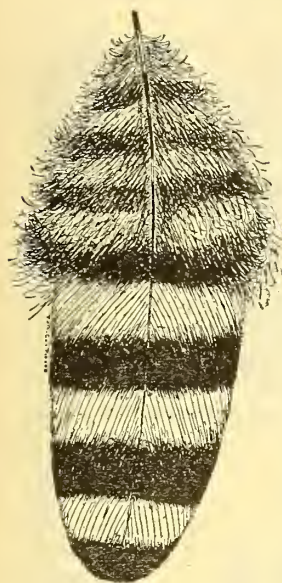
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I won all prizes offered on "Barred Plymouth Rocks." Cocks, 92; cockerels, 94, 94, 93, 93, 92, 92; hens, 94, 94, 93, 92, 92, 92; pullets, 94, 94, 94, 94, 93, 93, 93, 92. Breeding pens, 1st, 188, 2d, 187, 3d, 186. F. J. Marshall, judge, Middletown, O.

At the great Cleveland Show held Dec. 6 to 12, 1897, won 1st and 2d cocks, scoring 92 points each; 1st hen 94; 2d hen 93, 4th hen 92. Also won 1st, 2d, and 3d cockerels, scoring 94, 93, and 92 respectively; 1st, 2d, 3d, and 4th pullets, scoring 94, 93, 93, and 92 respectively. Also won 1st breeding-pen, 188, 2d breeding-pen, 185. Mr. L. G. Jarvis of Guelph, Canada, was judge.

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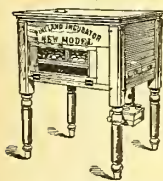
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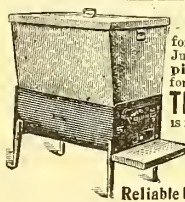
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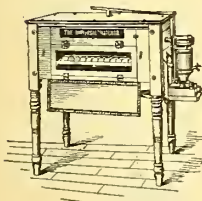
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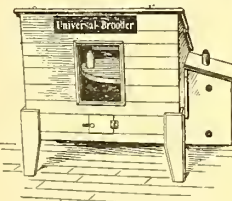
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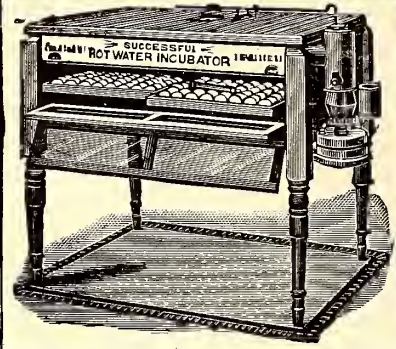
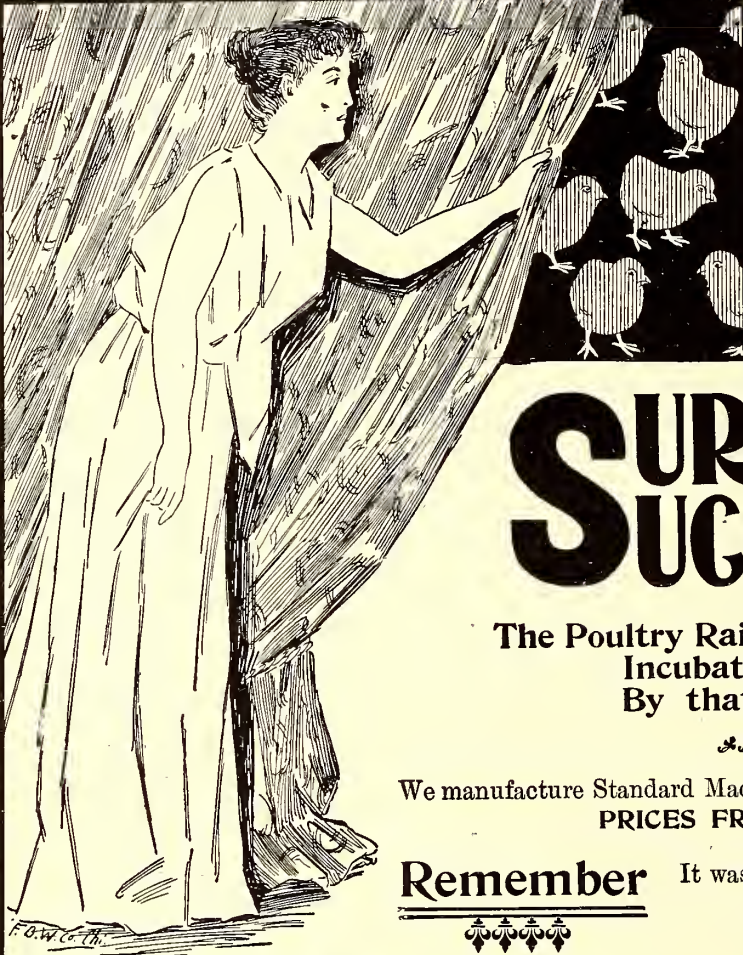
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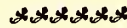
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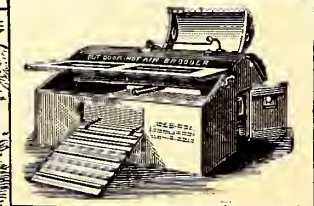
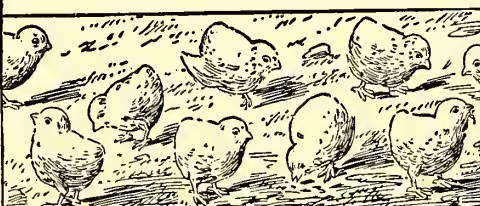
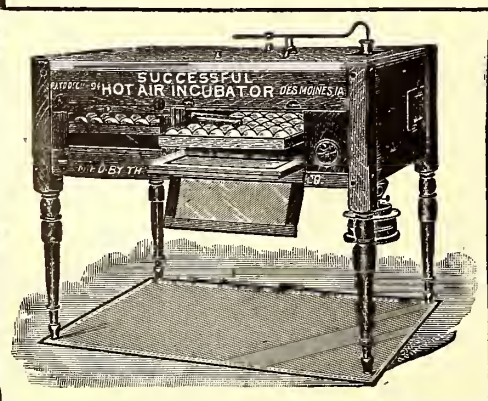
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SUPPLEMENT TO THE FEATHER,
FEBRUARY, 1899.

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BLACK LANGSHANS.

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WASHINGTON, D. C., FEBRUARY, 1899.

FIVE CENTS.

THE BREEDING TIME.

Care of the Sitting Hen—Fresh Eggs Needed to Produce Vigorous Stock—Plan of Nest for Sitters—Feeding Chicks.

All Kinds of Coops for Young Chicks.

THE sitting hen is a provision of nature for hatching chicks, and is peculiar to the feathered tribe alone. This natural incubation affords study for all, and there is much knowledge to be gained from their habits while sitting. In the wild or natural state they generally locate their nests in some secluded spot or on the ground. The earth being a poor conductor of heat, retains that imparted to it from the bird's body, while its moisture, together with that imparted from the bird, prevents an undue evaporation of the water contained in the egg. This is the natural method of incubation, and success by artificial means depends upon supplying like conditions.

For setting, fresh eggs are needed to produce vigorous stock; the fresher the eggs the better, as they hatch more promptly and chicks are more active and thrifty. In locating the nest it will be well to place it upon the ground; but if this be not practicable, earth may be placed in the nest-box.

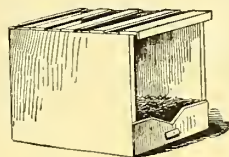


FIG. 1, THE NEST.



FIG. 2.

fifteen inches high, sixteen inches square, and has a lattice door in front to keep other hens from troubling the sitter. The top of the box is made of laths, which afford a free circulation of air. There is no bottom to this nest. It should be placed upon the ground. The lattice door is so arranged that it may be removed to allow the hen to leave the nest for food.

In the nesting material sprinkle Persian insect powder; also sprinkle the hen before placing on the eggs. Repeat this once every week during the sitting

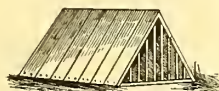


FIG. 3.

period. When the hen is taken from the nest with her brood, she should again be sprinkled with the powder, and each of the chicks should be slightly touched on the head and throat with a small quantity of sweet oil or lard. They should then be removed to the brood coop, and cared for as stated in other articles in these columns.

If all chicks lived that were hatched, the poultry business would be a decided success from the start. The youngsters are the greatest charge of the poultryman; more

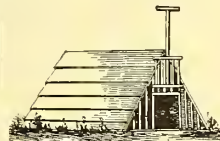


FIG. 5.

anxiety and care are manifested for their welfare than is apparent to the observer. In the chick must be recognized the promises of the adult bird, which is to be the source of profit. The first impression to be formed in our minds, is that the chick is a weak little creature when hatched, and certain things are needed to promote its growth. This impression teaches us that warmth, feed, dryness and exercise are necessary to encourage their development into strong and hardy birds. When the chick is hatched the temperature is about 100 degrees before it leaves the shell; this warmth should be supplied as nearly as possible to prevent it being chilled during its first week. A good way is to confine the hen and brood in a close coop well protected from dampness and draughts. By so doing the liability of being chilled in the early morning is prevented, and the brood does not become wet from running in the grass before the dew is off or after the rain. Great loss is sustained by allowing the youngsters too much freedom. If once thoroughly chilled they seldom recover. Bowel disease results from exposure, and this is the forerunner of death.

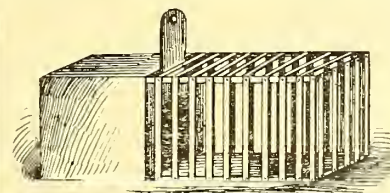


FIG. 7.

In feeding chicks, keep in view the fact that they feather very rapidly. Chicks do not require any food for twenty-four hours after hatching. For the first

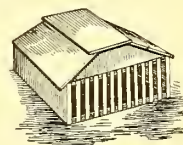


FIG. 4.

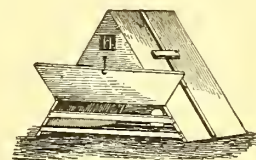


FIG. 6.

meal feed dry rolled oats. This should be fed for the first day. Stale bread crumbs may be mixed with the rolled oats. Feed all that they will eat up clean, but

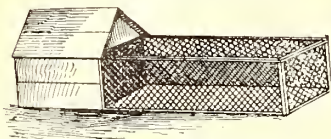


FIG. 8.

do not leave any food on the ground to sour. Keep in easy access to the chicks powdered charcoal, ground bone, sharp grit or coarse sand. A good food is made by mixing one pound of cornmeal, one-half pound middlings, one-half pound of ground meat, two ounces of bone meal, a pinch of salt, and one teaspoonful of bread soda. Moisten with milk or water and bake like bread; crumble and feed every two hours. Another recipe is to bake a loaf of the following: Equal parts of bran, cornmeal, oat meal, and a small portion of linseed meal, seasoned with salt; bake in an oven like other bread. Crumble and feed dry. Never let the chicks run outside of the pen unless the weather is warm.

A good bill of fare for the chicks can be made from the following foods: Cracked wheat, cracked corn, buckwheat, oats, sunflower seed, bread crumbs, lean meat chopped fine, steeped clover hay mixed with bran, cornmeal (scalded) mixed with a little sand, green food—consisting of lettuce heads, cabbage, sugar beets—chopped fine, occasionally a few onions, changing about so that they will have different foods each day. Small chicks should be fed every two hours; the second week the time of feeding can be made three hours, and after that three times a day. Always keep plenty of litter in the pen, such as chaff or cut straw. Give plenty of clean sand. Change the drinking water twice a day, and keep the coops thoroughly cleaned and whitewashed. When feeding soft foods always use a trough for the same.

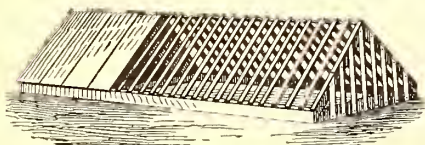


FIG. 9.

The proper housing of young chicks has much to do with their future. In the construction of coops, dryness and warmth should be first considered. The roof should be water-tight and the floor should be raised from the ground. Figs. 2, 3, 4, and 5 are excellent designs for coops for young chicks. They are large and give plenty of room for the hen and brood. A very good way is to place them under a low open shed to protect them from driving rains. Other plans for

Do not place it on the ground to sour and mold. Such a trough can easily be made, as shown in Fig. 2, and is handy to clean after using.

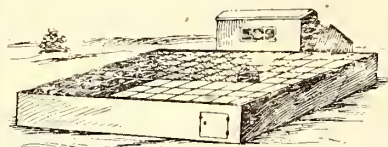


FIG. 10.

and brood confined in such pens there is no danger of the chicks becoming chilled by rain and wet. The hen being confined, she is always easy of access to the chicks, and when they become chilled they can go to her. In these runs the chicks are free from molestation by older birds.

A coop that any one can make with little trouble is shown in Fig. 11.

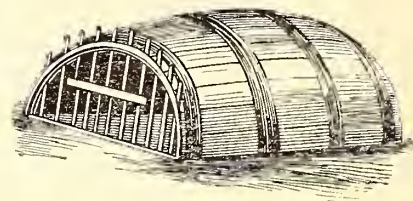
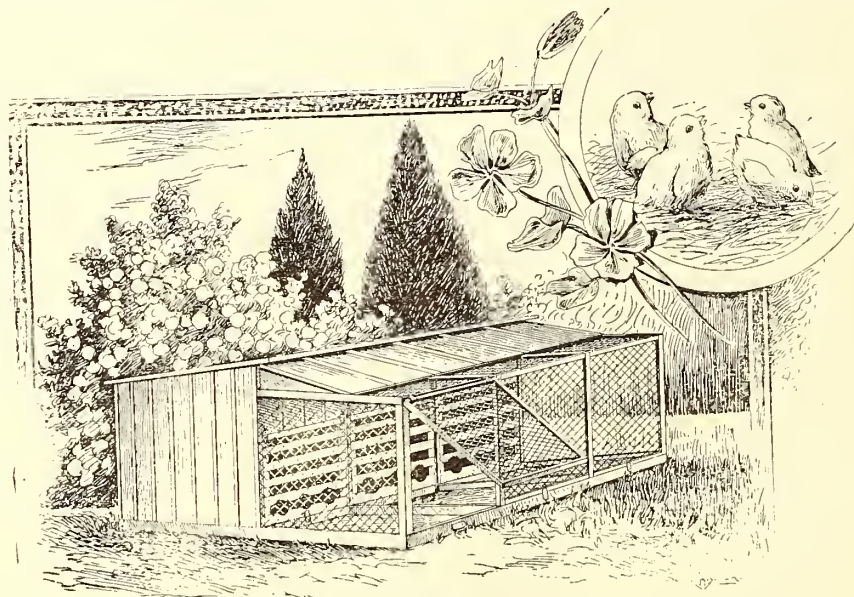


FIG. 11.

Take an old barrel and tack every hoop on each side of the seam between the staves with one-inch wrought nails. After clinching the nails saw

off on the seam. Then spread the barrel open, as shown in the cut, by cutting a board 20 inches long for the back of the coop, and two small pieces to tack laths to on the front. The upper section of the back is fastened with leather hinges, so that it may be opened at pleasure. When the chicks are a few weeks old a feeding-pen should be provided, as shown in Fig. 12. Such a pen will prevent the greedy hens



IDEAL COOP.

and larger chicks from robbing the little fellows of their food. It is not good policy to allow the young chicks to run with the older ones. It would be well to separate them as early as you can and provide them with a roosting-house, as shown in Fig. 13. This house can be built at a small cost. It should be perfectly dry, with low roosts and a lattice front, facing the south. The house should be closed at night. From the time the chicks



FIG. 12.

are weaned until late fall they can be kept in this house.

The ideal coop of our invention, published in the *American Agriculturist*, is the most elaborate of its kind in this chapter. In this plan the coops are built three in number, on the principle that poultry-houses are arranged to contain a variety

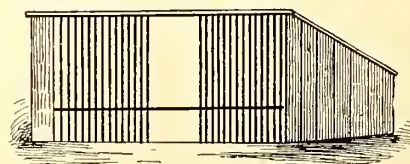


FIG. 13.

of fowls, with separate runs attached. Each division is separate and can be used for one, two or three broods at a time, if desired. The general custom is to have individual coops placed promiscuously around the yard; by this arrangement they are in one spot and easy of attention, saving labor when a number of broods are hatched.

When the hens and broods are allowed to roam at will for the first three weeks, there is no telling how many chicks may be lost before they attain the age to resist the variations of the weather and to care for themselves. By confining them for two or three weeks they are enabled to receive every attention needed for their rapid growth and development; in the coops here shown they are free from the torments of the older birds, or the angry peck of an ill-natured hen as they scramble for food and drink. The mother hen has nothing to detract her attention from the young, and performs her maternal duties in a motherly way.

The ground plan of the coop is six feet square, with three divisions two by six feet each. One-half of the frame is covered with matched boards, to serve as a floor for the enclosed part. The highest part is three and one-half feet, sloping toward the rear; the open portions are covered with one-inch wire mesh. The partitions of the enclosure are solid boards two feet high, with laths at the top to afford ventilation; the partitions of the wire runs are made of laths, placed one-half inch apart, to avoid fighting between the hens, but permit a free passage of air from one space to the other.

The roof should be made as close as possible, and covered with tarred paper to insure dryness within; the sides should be built of even boards and stripped over the cracks with one-half by three-inch strips. Place dry earth on the floors of the enclosed parts one inch thick, and a little straw in the rear for the hens and chicks to lie on. In the wired parts cover the ground to a thickness of two inches with white sand; this prevents dampness after a rain. Keep the coop well cleaned and whitewashed; sprinkle insect powder in the corners to keep out vermin. Place water in fountains in the runs; scatter the grain food on the ground and feed the soft food in pans to avoid the waste part souring on the ground. Never feed nor place the water fountains in the closed part, as this is intended for roosting only. After taking the hen and brood from the nest, they should be kept in the roosting part for a couple of days; the lattice door separating the coop and the run should be closed during this time to keep the hen confined, but the brood may have free access through the lattice door to the run. After this, the lattice door may be kept raised, and the hen and brood can use the entire space of house and run. When the chicks have grown sufficiently strong, the outer door may be raised, and the brood can range on the grass during good weather, and be cooped at night until the hen leaves them, when they should be free to range to themselves and be cooped in a different house until they are ready for the pens in the fall.

It's A Dandy.

H. A. Bridge, Columbus, Ohio, the well-known judge who has just been elected secretary of the American Poultry Association, writes: "Could not think of doing without THE FEATHER. It's a dandy."

Keep It Running.

Please keep my ad running as it is in THE FEATHER for three months more, as it is doing good work for me. Geo. Wolf, Seneca Falls, N. Y.

Best Breeds.

The difficulties of poultry raising may be overcome in a measure by the judicious selection of a breed of fowls best suited to your surroundings. If you have but a limited area and your flock must be confined most of the time, you should choose those breeds which may be kept in confinement with best results. The suburban residents produce a large proportion of the poultry and eggs consumed in this country. The farmer as a rule keeps one flock on a farm with less satisfaction than he who takes care of one in confinement. The best egg records are from those flocks which have been kept in yards instead of having an altogether free range. More labor is required, of course, to manage flocks in confinement, yet this is made up for in the increased egg-yield and saving in the cost of the range.

Leghorns, Hamburgs, Minorcas, Polish, and Houdans are true rangers, and an extra degree of care is needed to provide them with litter for scratching to satisfy their restless natures where their range is a small one. The Plymouth Rocks and Wyandottes belong to the middle class, as it were, and will give great satisfaction either for confinement or on a free range. The Brahmas and Cochins are strictly fowls for confinement, and will naturally do better under that condition than any other class.

The great difference of opinion regarding the best breeds for special purposes causes much doubt to exist as to those to be chosen.

THE SCIENCE AND PRACTICE OF POULTRY FEEDING.—VII.

Experiments With Laying Hens.

BY DR. D. E. SALMON.

IN ORDER to calculate rations with any degree of satisfaction from the table giving the analyses of feeding stuffs, it is necessary to have accurate knowledge showing how much food of known composition will be eaten by fowls of known kind and weight. Unfortunately, the scientific studies of this question have been very few and the results are fragmentary and far from sufficient to form a basis for reliable conclusions.

The New York Agricultural Experiment Station, at Geneva, has been a pioneer in this work, and its bulletins, which have been prepared by Prof. Wm. P. Wheeler, are models of careful and accurate scientific work, and of clear and comprehensive presentation of the results attained. It has appeared to the writer that this valuable work has not attracted as much attention as its merits deserve, but it is sure to receive due appreciation as students try more and more to master the subject of poultry feeding.

The results of the experiments made at the Geneva Station will be utilized in these pages so far as they elucidate the problems which are to be discussed, and for this purpose the data will be rearranged and tabulated in such form as appears most suited to the object in view. In this chapter it is proposed to present the results of experiments with laying hens, and these results are all the more important because of the large number of fowls (over one hundred) included, and the long period (from eight months to one year) over which the observations were made. The food was all carefully weighed and analyzed and its composition is, therefore, accurately known.

The following table is arranged to show the simplest and most elementary facts concerning the amount of food that will be taken by laying hens of a given weight, that is, the quantity of each of the principal constituents of the food contained in the rations, the nutritive ratio, and the amount of food per pound of live weight:

Table Showing Food Consumed by Laying Hens.

No. of pens.	No. of Birds.	Breed.	Kind.	Average Live Weight lbs.			Average food per day per fowl.	Average water-free food per day per fowl.	Average food per day per 1 lb. live weight.	Average water-free food per day per 1 lb. live weight.	Average daily rations. Per fowl.				Length of period.
				Beginning.	End.	A. v. for yr.					Protein.	Carbohydrates.	Fats.	Nutritive Ratio.	
1	6	{ S. C. W. Leghorns }	Laying hens.	3.02	3.55	3.4	3.01	2.43	.88	.71	.439	1.554	.150	1:4.42	1 yr.
2	6	{ W. C. B. Polish }	"	3.64	3.80	3.7	3.21	2.57	.88	.70	.385	1.796	.144	1:5.52	"
3	8	{ P. Rocks, Light }	"	7.36	6.16	6.5	4.01	3.30	.62	.51	.611	2.096	.196	1:4.16	"
4	8	{ Brahmas, and Buff Cochins. }	"	6.64	6.98	7.4	4.00	3.27	.54	.45	.484	2.281	.177	1:5.51	"
5	12	{ W. Leghorns. }	Cock and laying hens.	3.21	3.51	3.4*	4.04	2.83	1.19	.83	.45	2.00	.20	1:5.47	"
6	11	{ W. Leghorns. }	"	3.45	4.05	3.7*	4.24	2.94	1.15	.79	.44	2.12	.19	1:5.81	"
7	8	{ Buff Cochins. }	"	6.16	6.76	6.5*	4.78	3.41	.73	.52	.54	2.44	.22	1:5.45	"
8	8	{ Buff Cochins. }	"	6.63	6.74	6.7*	4.87	3.50	.73	.52	.52	2.58	.22	1:5.93	"
9	8	{ Indian Game- B. Cochins cross. }	Cockerel and pullets.	5.02	6.00	6.0	4.05	3.29	.67	.55	.57	2.29	.15	1:4.62	8 1/2 mos.
10	8	{ B. Minorcas and B. Cochins cross. }	Pullets.	5.79	5.75	5.8	4.07	3.31	.70	.57	.55	2.24	.16	1:4.72	"
11	11	{ Light Brahmas. }	Pullets and cockerel.	5.15	5.09	5.3	3.72	3.02	.70	.57	.55	2.07	.14	1:4.35	8 mos.
12	10	{ Light Brahmas. }	Pullets.	5.91	5.14	5.5	4.01	3.27	.73	.60	.59	2.25	.15	1:4.40	"

* Approximate.

In these experiments, laying hens weighing from 3.4 lbs. to 7.4 lbs. consumed each day from 3.01 oz. to 4.87 oz. each of food. This food contained from 2.43 oz. to 3.50 oz. of dry matter. It is always important to know the amount of dry matter in the ration, as otherwise we have a very insufficient basis for comparison. Green food, vegetables, milk and meat, for instance, contain relatively a large proportion of water,

while even the air-dry grains differ considerably under various conditions; and, consequently, the amount of nutriment in the ration can only be accurately known by determining the weight when free from moisture. This does not mean the imperfect drying which occurs by exposure to the air and sun, but it refers to the drying at a high and carefully regulated temperature by the chemist in his laboratory.

In other columns of the table it is shown that the amount of food consumed daily per one pound of live weight varied from 0.54 oz. to 1.19 oz., and that the water-free substance in this food varied from 0.45 oz. to 0.83 oz.

It is plain that the smaller fowls, though eating less food than the larger ones, really consumed more food per pound of live weight. Thus, in lines 1, 2, 5, and 6 the Leghorns and Polish hens, with an average weight of from 3.4 lbs. to 3.7 lbs., are shown to have consumed from 0.70 oz. to 0.83 oz. of water-free food per day and per pound of live weight; while in lines 3, 4, 7, 8, and 9 the Plymouth Rocks, Brahmas, Cochins, and Indian Game-Cochin cross, with an average weight of from 6 lbs. to 7.4 lbs. consumed from 0.45 oz. to 0.55 oz. per day and per pound live weight. This is what should be expected, because the smaller the bird, the larger relatively is the external surface from which loss of heat occurs, and, consequently, the more fuel must be burned to maintain the temperature of the body. With the medium weight birds, averaging from 5.3 lbs. to 5.8 lbs., the amount of water-free food consumed per day per pound, live weight, was from 0.57 oz. to 0.60 oz., and, therefore, between the extremes given for the smallest and the largest.

With differently compounded rations and under different conditions of atmospheric temperature and vital activity, the quantity of water-free food taken per pound and per day will vary considerably with birds of the same weight, but unquestionably it is a general principle that the smaller the bird the larger the amount of food that will be required, per pound live weight, to sustain it.

The average composition of the daily rations is interesting as showing the amount of each of the principal constituents which was eaten each day with a given nutritive ratio. These figures were not reached by calculation from the tables giving averages of analyses, but this particular food was in each case carefully analyzed and its composition accurately determined. This table, therefore, has a special value for purposes of study which a table calculated from the average composition of such articles of food can never have.

It is interesting to note that with rations having a nutritive ratio of 1:4.16 to 1:5.83 the fowls consumed, per head and per day, of protein from 0.38 oz. to 0.61 oz., of carbohydrates from 1.554 oz. to 2.58 oz., and of fats, from 0.14 oz. to 0.22 oz.

This table is so comprehensive and contains so much new and interesting data, that it is commended to the reader for careful study and frequent reference.

Linseed Meal.

Linseed meal makes an excellent food for poultry if properly given. A pound of linseed meal, mixed in the mash, and fed to fifty hens twice a week, will promote the egg production and health of the fowls. It should not be fed more frequently than this.

Better Results.

During the season we ran an ad in one or more papers besides THE FEATHER, and to be honest with you, I must say that THE FEATHER gave better results than any I have ever tried.

Ish C. MYERS, Leesburg, Va.

THE LANGSHAN.

A Practical and Profitable Fowl for the Farmer and Fancier—The Best of Winter Layers—A Comparison with Other Breeds.

Fine Layers and Excellent Table Fowls.

BY J. W. WALE.

THE pure Langshan fowl to-days stands pre-eminent in the Asiatic class, and in the rural districts it must be admitted that it stands at the top for general utility. The non-sitting breeds may lay more eggs at one season of the year, but they do so when eggs are cheap. I believe there is no fowl in existence that will lay as many eggs on the farm in winter as the Langshan. For five years in succession I bred and raised Plymouth Rocks, Wyandottes, Brahmas, Cochins, and Leghorns; let them stay together all the time except the breeding season, and in every instance in cold winter weather, the Langshans were filling the egg basket, while the others were laying but little, and I think I am safe in saying, that I got more eggs from two dozen Langshans than from an equal number of each kind of all the others together.

I have a friend who has been raising Light Brahmas several years, and has taken some of the biggest premiums in the biggest shows in the country; he told me not long since that he used to think no bird in the world laid as well in winter as the Light Brahmas. He commenced breeding Langshans three years ago, and he says now that his Langshans are much better winter layers than his Brahmas. He also said he did not believe there was a bird in the world as good a winter layer as a Langshan. We breed birds for beauty as well as utility, and all good breeders (even Uncle Isaac, who has always maintained that the market value of birds is the first consideration), when they find a bird that is extra fine in shape and color, whether large or medium size, they go for it and ask no questions about its laying qualities, or how many pounds and ounces it weighs.

There is no finer styled bird than a Langshan of medium size. As a general thing large, overgrown birds of any breed are not profitable either as breeders, sitters, mothers, or table fowls, and in Langshans the large, overgrown males are apt to be knock-kneed, weak-jointed, ungainly and an eye-sore to visitors. I

have had cooked Plymouth Rocks with Langshans, Wyandottes with Langshans, Brahmas with Langshans, Leghorns with Langshans, Cochins with Langshans; placed them on the table side by side and let others judge of the quality for eating, and in every instance it was acknowledged that the Langshans were superior to the others. The breast of a Langshan is deeper than most other breeds.

They are natives of a cold country. They do not stuff full of fat as some do, which makes them good layers. They have more meat and less bone according to size than most breeds. It seems to me that some men write to please everybody in the poultry business, when they say there is no such thing as the best fowl. We all know that a Barred Plymouth Rock will sell alive in market to the general public better than any other, except where people know the difference in the quality for eating. The people have a prejudice against

dark-colored fowls. A man who buys, and butchers and ships a great many fowls from our town told me not long since that the Langshans were the nicest fowls to dress he could get hold of, and I know that when the feathers are grown there is no fowl easier to clean than a Langshan. Any chicken that has pin-feathers is hard to pick, and we eat the feathers on light-feathered fowls and pick them off of black-feathered birds. There is no better sitter and mother than a Langshan. There is no more hardy fowl than the Langshan. The chicks are hardy, grow rapidly, and are fine for broilers.

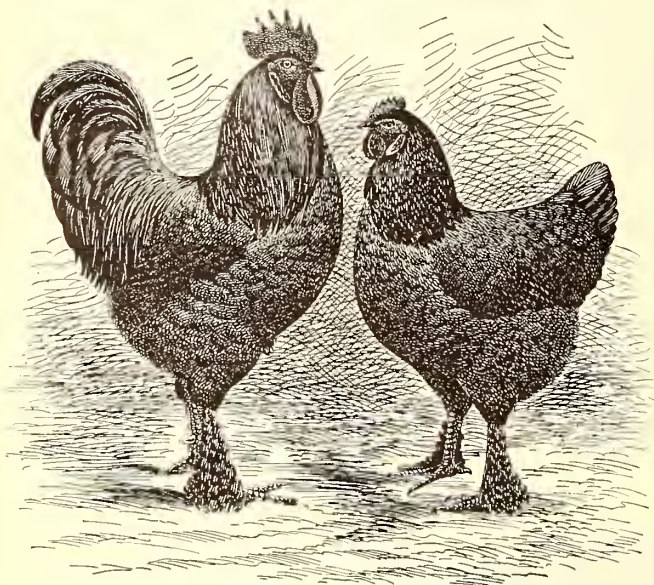
In traveling through the country one sees Langshans with short legs, long legs, scant leg and toe-feathers, very heavy leg and toe-feathers, short bodied and long bodied, close feathered and loose feathered, with fine style and with no style. Now, what is the true shape and

color of Langshans? One man wants one type and one another type. I think we should find out the true shape and color of Langshans on their native heath, and breed in that line. I have a Langshan cock whose sire and dam are said to have come from China. He is not a loose-feathered bird. History tells us that the Langshan was formerly a wild fowl, and we know that they are hardy, active, fine boned, and fine styled, pugnacious and rather leggy, all of which does not denote very loose feathering. My old bird is medium in size, very active and fine styled, small head, broad skull, fair comb, long neck and long hackle, short back, full breast, very full tail, small bones, shanks rather long and thinly feathered, toes long and slender. His skin and feet are pinkish-white, instead of deep reddish-pink, like some I have seen.

Now, when we compare all the Asiatic, American,



WHITE LANGSHAN COCK.



PAIR BLACK LANGSHANS.

and Mediterranean classes, we find that the Langshan combines more good qualities than any other bird. Langshans will not break down, like Plymouth Rocks; they will not get full of inward fat like Plymouth Rocks, which is one reason why they are better layers; they live longer and are more hardy than Plymouth Rocks; they have more meat and less bone according to size than Plymouth Rocks. It is true they have not yellow skin and legs—neither have turkeys. The Langshans are better winter layers than Plymouth Rocks.

Langshans are the smallest and most active of the Asiatic class. They are practical in more senses than one, and their prolific laying and other excellent qualities make them profitable for the farmer and market poultryman. They constitute one of the oldest breeds of poultry and have always been held in popular esteem. The shape of the Langshan is distinct from that of the Brahma or Cochin, and should not be confused with either of the last-named breeds. Langshans have white flesh and dark legs, while the others are yellow-skinned and yellow-legged. The quality of the flesh of the Langshans is excellent, being fine grained, tender, and nicely flavored. As layers they rank among the best, averaging from twelve to thirteen dozen a year, and as winter layers they are to be recommended. The chicks are hardy and mature early. Langshans are good sitters and mothers, being of gentle disposition; they are easily kept, either in confinement or on free range. Being excellent foragers, they are ideal fowls for the farm, and will gather during the year a considerable proportion of their food.

The Langshan is a stylish, medium-sized bird, not overgrown or gawky in appearance, of active nature, and lively disposition. Many confound the Black Langshan with the Black Cochin. This need not be, as the following comparison between the two varieties shows: The Black Cochin is square in shape, with heavy-looking neck and legs, plenty of fluff and leg-feathering, cushion rising from middle of back to tail, tail short, small, and almost concealed by cushion; neck, breast, cushion, and tail all represented by convex lines. Langshan head, small for size of body, comb medium size, well up in front, and arch shaped; Cochin head, larger than that of the Langshan and not so arched over the eye; comb smaller, low in front, and almost straight on top of serrations. Langshan

back, short and concave; that of the Cochin, medium length, slightly convex, and large convex cushion. Langshan fluff, moderate and close; that of the Cochin extremely full and loose. Langshan wings somewhat large and inclined downward, quite prominent at shoulders; the Cochin wings smaller and almost hidden by the fluffy plumage of cushion and fluff. Langshan breast full, deep, and carried well forward; Cochin breast not so full and deep, but broader. Langshan legs medium in length, small bone, long tapering toes, color of shank, bluish black showing pink between scales, which are nearly black; Cochin legs shorter, stouter, larger bone, toes shorter and stouter, color of shanks black or yellowish black.

There are two varieties of Langshans—the Black and the White. The Black in plumage of neck, back, saddle, sickles, a glossy metallic black, with greenish sheen; breast, primaries, secondaries, tail, fluff, shank and toe-feathers, black. The undercolor is black or dark slate. The White Langshan is pure white throughout. The standard weight of cocks for both varieties is ten pounds; hens, seven pounds, cockerels, eight pounds; and pullets, six pounds. Let the public test these things, and we will certainly hear a good report from the Langshans.

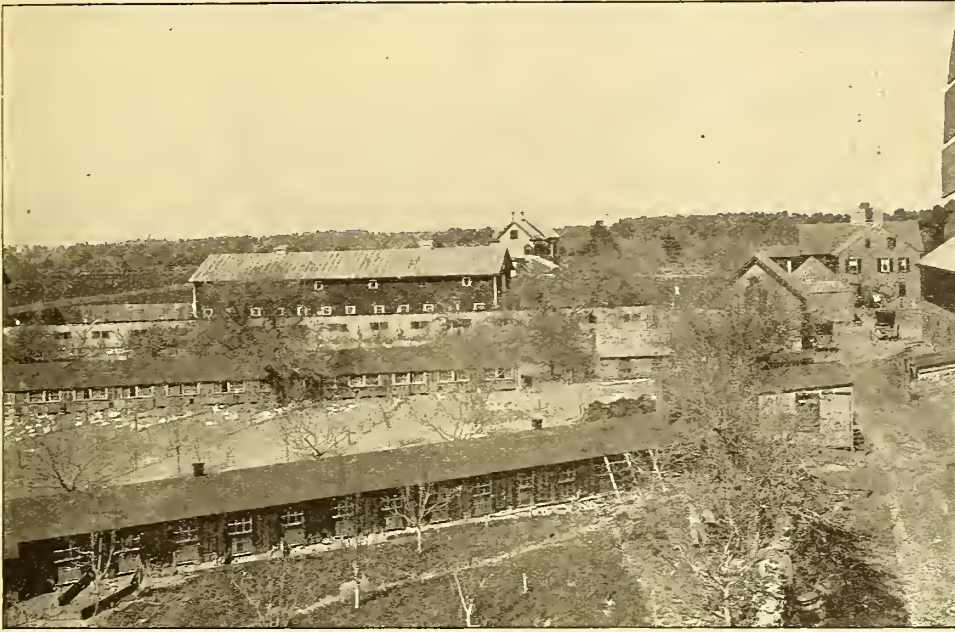
GROWING DUCKS.

Suggestions for Operating Incubators.

BY JAMES RANKIN.

In growing ducks, the most particular thing of all is the selection and care of the breeding birds; it all depends upon that. Good site and buildings together with the most approved machinery will amount to nothing unless your eggs abound both in fertility and vitality. As the eggs of yearling birds are larger and apt to be more fertile, the conditions for getting out good, strong, healthy ducklings are in their favor, but should the amateur begin, through necessity, with young birds, by all means get them out early and develop them well by feeding the proper ingredients to grow both flesh, bone, and feathers.

The best food for this is equal quantities of cornmeal, wheat bran and Quaker oat feed, ten per cent of ground beef scrap, and at least twenty per cent of the whole should consist of green stuff of some kind. Feed carefully three times per day and no more than they will eat clean, in fact, keep them a little hungry. Poultry of all kinds will not only thrive better fed in that way but will actually fatten better. There are more diseases generated by overfeeding alone than from all other cases combined. Mix gravel into the food and keep that and crushed oyster shells by them constantly. Young birds, if March hatched and of a good strain, will begin laying in August. This should be prevented if possible, as the eggs are of no account at that time except for market, and as the laying birds will be almost sure to molt later on they will not recover plumage in time to furnish eggs when you need them. We have sold a great many eggs during the months of August and September, from our young birds and yet have fed them principally on bran. These birds should be kept quiet nights. Sometimes in dark nights they will be fairly wild and stampede, treading each other down in their frenzy. Such a commotion always results in more or less cripples in the morning, and can be avoided only by separating



SECTIONAL VIEW OF RANKIN'S DUCK FARM, SOUTH EASTON, MASS.

them in smaller numbers and hanging out lanterns to quiet them. 417

These birds will always do better outside without shelter, until frost is severe, than when housed. They will suffer most in their feet. We always house our birds about the last of November, sometimes earlier. They usually begin to lay in about two or three weeks after being housed. Feed a little more cornmeal and scrap now, for the bird is giving you an egg every day, weighing nearly a quarter of a pound and she must have something to make it of. The eggs for the first month or two will not be very fertile, especially of the young birds, but will gradually increase in that direction and by February 1st the standard of fertility should reach ninety or ninety-five per cent. If they do not reach that standard or the eggs do not hatch well, depend upon it there is something wrong with the care or feed and the matter should be carefully investigated and the defect rectified. The amateur can depend upon one thing, and that is, that a well-bred Pekin Duck is under perfect control, and if she does not promptly respond to generous feed, care and treatment, there is something wrong about it. I have never found it to fail in an experience of nearly forty years.

The infertile eggs can easily be detected after being in the machine seventy-two hours and can then be sent to market. Indeed, they are by far the best eggs, as the germ of fertility in an egg is the germ of decay, and the infertile egg in a cool, moist atmosphere, can be depended upon to keep for weeks, even months. There will always be a few eggs in each ma-

chine with just vitality enough to develop a germ a few days old, but will go no farther. These should be laid aside and boiled hard for the little ducklings when hatched. Regarding the application of ventilation or moisture to either ducks' or hens' eggs, during the process of incubation, just when and how much, no correct rules can be given, as it depends largely upon the location of the operator, whether his machine is in the cellar of his house, or in a dry room overhead. Whether in a humid atmosphere near the seashore, or in a rarified one at an altitude in the country. It is always safe, however, to introduce a little moisture just before the little birds come out. For ducks' eggs, we use moisture, one pan, about the fifteenth day of incubation running at 102 de-

grees the first eighteen days, then at 103, cooling the eggs a little once each day after the fifteenth day. This is especially necessary during warm weather, as the air should be changed in the air-cell in order to properly develop the young bird. The eggs should be turned carefully twice each day. The glass should be placed on a live egg in the center of machine and a uniform temperature kept in all parts of egg-chamber. To the beginner these details may seem trivial and unnecessary, but they are essential to the whole. The expert performs them mechanically, and when done faithfully, they meet with uniform success.

Ventilation.

During severe weather do not use a ventilator, but shut the house up tight and see that all cracks are stopped. Above all things avoid draughts.



SECTIONAL VIEW OF RANKIN'S DUCK FARM, SOUTH EASTON, MASS.

The Feather, Washington, D. C.

Published the 15th of each Month by
GEORGE E. HOWARD & CO.

Subscription 50 cents a Year in Advance.
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Single Copies 5 cents.

GEORGE E. HOWARD, Editor.

All matter intended for publication should reach us by the first of the month preceding the issue in which the same is to appear.

Write your name in full, giving full post office address plainly, so there will be no mistakes.

When writing for publication use only one side of paper. Brevity is the soul of wit.

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The Feather now offers the best and cheapest advertising in the country. Its circulation has increased more than one hundred per cent. during the last year. Its advertising rates are lower than those of any other journal of equal standing and circulation.

The Feather reaches the people that transact the poultry and pigeon business of the country. Its publishers have made a special effort to include among its readers all the most successful and most enterprising fanciers. Advertisers are often astonished by the large amount of business which comes to them after running their card a few months. There is no other medium which reaches so large a proportion of readers in all sections of the country who are able and willing to buy when they learn who are offering the stock or supplies which they need.

Net Advertising Rates.

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All other bills are payable quarterly after the first insertion for the quarter.

Five per cent. discount will be allowed on bills of over five dollars which are paid in advance.

No advertisement will be inserted at any price from persons who are not responsible or who fail to deal honestly with their patrons. We particularly request our readers to notify us of any advertisers whom they believe to be dishonest or fraudulent. Honest advertisers will be protected—dishonest ones will be denounced.

New advertisements must be received not later than the 1st of the month. Copy for change of advertisement must be received not later than the 25th of the month preceding.

Remittances should be made by postal money order, registered letter, bank draft, or express money order.

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GEORGE E. HOWARD & CO.,
504 11th Street, Northwest,
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Entered at the Post Office at Washington, D. C. as second-class matter.

FEBRUARY, 1899.

12,000 COPIES FOR FEBRUARY.

AFFIDAVIT.

William J. Wallace, of the firm of McGill & Wallace, printers and binders of Washington, D. C., being first duly sworn, states that his firm printed and bound ten thousand (10,000) copies of the December (1898) number of THE FEATHER, ten thousand (10,000) copies of the January (1899) number of THE FEATHER, and is now printing and binding twelve thousand (12,000) copies of the February (1899) number of THE FEATHER.

Signed:

WILLIAM J. WALLACE.

Sworn to and subscribed before me a Notary Public on this the eleventh day of February, 1899.
[SEAL.] REBECCA COOK,
Notary Public.

The Best System.

We are in receipt of an interesting communication from a subscriber, on the much-talked-of but never-settled topic—judging poultry. He says:

I do not know how THE FEATHER stands on the system of judging fowls. I do not favor the comparison or guessing system, but am willing to support all journals I can that advocate the American score-card system. I expect to write you again when time permits.

It is our pleasure to say to our correspondent that THE FEATHER is in favor of the best system of judging fowls that is in vogue to-day, and we believe that system to be comparison judging. We do not say this without careful thought on the subject, but rather to the contrary. The system of judging by comparison is perfectly satisfactory, and we feel quite sure the places awarded the winners in a comparison show, would be placed the same under the score-card system. The judge mentally scores the birds when judging by comparison, and the only difference in results is that one has a score-card and the other has not. This is not all. We feel equally certain that our shows would not be one-half as successful as they are, if the score-card was used, for the reason that one-half of them would never be completed during the life of the show. The score-card system was used at the first Washington show held in 1896, and we happen to know that the awards were hardly placed in the five days of the show, besides there was more dissatisfaction with the decisions than with all of the other three shows added together. Comparison judging assures success to any show; it is modern, rapid, and gives as much satisfaction as any other method employed for judging fowls. Seeing it as we do, we will answer our correspondent's query with the above, because we have had extended experience with both systems, and feel that comparison judging is the system that gives the most satisfactory results of any system now in use.

* * *

Great Pictures.

Since the publishing of the last number of THE FEATHER, containing the beautiful colored plate of Light Brahmas, we have received hundreds of letters from our readers praising this picture. We are greatly pleased at the success of the picture, and feel glad that we are enabled to add so much to our readers' benefit. The picture was painted from a pen of Light Brahmas, which were bred by our friend of long standing, PHILANDER WILLIAMS, Taunton, Mass. Our readers are all well acquainted with this veteran, if in name only, and we take extreme pleasure in mentioning the fact that he bred the models from which the most successful picture of poultry has been produced. Our Langshan supplement this month is another of the high-class pictures that are to accompany each number of THE FEATHER in the future. This latter picture is based on the model which MR. SEWELL presented to the Langshan Club, and we knew of no better example to go by than this, hence its production as our supplement, representing a noble breed of fowls. The picture may be a trifle ideal in character, but it undoubtedly gives an excellent type of the Langshan fowl. It is our purpose that our readers shall have a collection of high-class, artistic pictures of all breeds of fowls. Time will accomplish this, and those desiring the complete list should subscribe to THE

FEATHER without delay, as it is impossible to supply back numbers.

* * *

Our Circulation.

THE FEATHER has from time to time published sworn statements of its circulation. They have not been confined to single issues of a phenomenal number, but have covered a series of regular monthly editions. Following this custom there appears this month an affidavit as to the editions for December, January, and February. The growth of THE FEATHER has been steady and healthy. The circulation of thirty-two thousand copies in three months of a journal in its fourth volume, is not a bad showing considering the depressed condition of business at the time our venture was launched. Notwithstanding the large editions printed there have not been enough to supply the demand for sample copies, and we shall be obliged to print fifteen thousand copies to fill the orders for the March number. Our acknowledgments are due to the thousands of friends who have generously aided us in making THE FEATHER a household word in all parts of the country.

* * *

The Subscription Season.

Never in the history of this journal have the subscriptions come to our office in such numbers and with such increasing regularity as during the months of December and January. Although large editions were published each month they were soon exhausted and we are compelled to apologize for not being able to supply all the copies asked for. With an increase of two thousand copies for February and a still further increase of three thousand copies for March, it is hoped that there will be no cause for disappointment with any whose subscriptions are ordered to begin in either of these months. Both of these numbers will contain valuable matter which should not be missed, and it will be well for intending subscribers to forward their orders as early as possible, for at the rate subscriptions are now pouring in there is no certainty but that either or both numbers may be exhausted within thirty days from date of issue. THE FEATHER will double its list of subscribers during this subscription season.

* * *

About Advertising.

The enterprising advertisers who wish to bring their announcements before the poultry fraternity have evidently discovered that THE FEATHER is just now giving the cheapest advertising in the country. These rates were calculated for a circulation of 6000 to 7000, but this number had been surpassed before the rates went into effect, and, as a consequence, our advertisers are getting the advantage of a circulation fifty to one hundred per cent greater than we have charged them for. We are obliged to add four pages this month in order to accommodate the increased business which these exceptionally favorable terms have brought, but we shall not long continue to offer such inducements. We prefer to keep our advertising pages within reasonable bounds and to admit only those advertisers to our columns whose business methods are beyond reproach. The interests of our readers can not be further encroached upon and we do not care to add to our advertising pages,

hence new advertisements will be scrutinized more closely than ever before.

* * *

The Feather. Many complimentary and highly gratifying letters have reached us lately concerning the typographical appearance of THE FEATHER, and the valuable articles which have appeared in its columns. The supplements in particular have been received with enthusiastic approval, and this has been especially the case with the beautiful colored plate which accompanied the January issue. The publishers propose to maintain the high character of this journal and to add new and interesting features as the increase of business warrants. Those who want the latest and most accurate information, the highest class of illustrations, and the most reliable advertising announcements will continue to read THE FEATHER.

* * *

A Great Scheme. Our friend ROBERT A. COLT, comes to the assistance of local breeders and fanciers. In answer to our editorial, "Suppressing Nuisances," in December issue he suggests the following:

I see by THE FEATHER that many in your beautiful city are having a hard time with "crowing roosters." If I may be allowed to make a suggestion to the hennemen, would say, cut or split the tongue of the rooster, and thereby down the commissioners. The birds may make a sound but it can not be called crowing. * * *

We give this suggestion to our readers; and if the thing works and the unjust law is defeated, the local fraternity will be under everlasting obligations to Friend COLT. Try it on the first "crower" that dares interrupt the slumbers of our citizens, and report results. MR. COLT also suggests that if the scheme does not work, the next best thing to be done is to raise ducks.

Annual Meeting.

The American Poultry Association held its twenty-third annual meeting at Toronto, Canada, January 10-12, 1899. The meeting was well attended by members from the States. President I. K. Felch made an interesting address of welcome, and offered some valuable corrections in the Standard. Mr. Felch called Vice-president A. F. Peirce to the chair. In the absence of Secretary Sternberg, who was called to the army in the Philippines, Assistant-Secretary Arthur E. Felch read the report. The report showed the total receipts to be \$2,025; expenses, \$333; total cash balance in the treasury \$1,692, exclusive of the moneys in the hands of the secretary. Mr. Felch reported that he had received 4,938 Standards from the publishers, and had sold 4,004 up to January 1, leaving on hand 934. The following new members were elected: Frank McKenzie, Concord, Mich.; H. J. Quilhot, Johnstown, N. Y.; B. F. Bryant, Johnson Creek, N. Y.; W. Minich, Carlisle, Pa.; Chas. S. Proctor, Peoria, Ill.; David S. Lee, Peoria, Ill.; Victor Dewein, Peoria, Ill.; A. N. Morgan, Urbana, Ill.; Thos. F. Rigg, Iowa Falls, Iowa; George H. Northup, Raceville, N. Y.; H. B. Donovan, Toronto, Ont.; C. W. Jerome, Fabius, N. Y.; Frank Heck, New Albany, Ind.; Richard Oke, London, Ont.; and A. D. H. Faulkner, Aurora, N. Y.

Allen Bogue, London, Ont., was elected president, and H. A. Bridge, Colum-

bus, Ohio, secretary. The vice-presidents remain the same as last year, excepting F. J. Marshall, who was elected to fill the vacancy of H. A. Bridge, the newly-elected secretary.

The following changes were made in the Standard: There will be one point difference instead of one and one-half points as heretofore, between solid and parti-colored breeds, and those having weight clauses and those that have not. Vulture hocks to be a disqualification in all Asiatics. In General Disqualifications, "white in the face of cockerels" refers to all Leghorns except Buffs.

A committee of Messrs. Bridge, Butterfield, and Peirce, was appointed to correct the scale of points in Polish, Houdans, Hamburgs, Oriental Games, Bantams other than Game; to complete description of Red Pyle female, and to describe the comb in Polish and Houdans. White in the head plumage of Black East India Ducks, and "black in the beak" of White Pekin females, will now be a disqualification.

To win a first prize, the first pen shall not score less than 180 points, with no specimen in the pen scoring less than 88; second prize not less than 178 points, and no specimen less than 87; third prize not less than 175 points, and no specimen less than 86.

In Barred Plymouth Rocks, the wattles to be of equal length in both males and females. Color of beak in female to read, "Yellow, or with slight dark striping." Earlobes to be medium in size and fine in texture.

Red covering more than one-half of the ear-lobe of Brown Leghorn cockerel or pullet will disqualify. In the disqualifications of Brown Leghorns, as "white or gray" at base of tail, the words "or gray" are stricken out. As to color, as described as "brown penciled with dark brown," should read "light brown penciled with dark brown;" the tail-coverts to be of same color as back.

The comb of male Black Sumatra Game should be same as female. The beak of female Golden Duckwing Game should be "horn-color." The color of Silver Spangled Hamburg eye in both male and female to be dark hazel.

The above changes in the Standard are to go into effect immediately. A new edition of the Standard was ordered to be printed at once, and those having a copy of the first edition of the new Standard can procure a copy of the changes by enclosing a one-cent stamp to the secretary.

Personals.

V. A. Myers, Scranton, Pa., sends several feathers of a Pennsylvania Pheasant. They are very pretty.

In our article on Arthur G. Duston's White Wyandottes, we stated that he bred from sixteen pens of birds last season, but failed to mention the fourteen additional pens that he had on outside farms, making his total number of breeding-pens thirty, instead of sixteen.

Under Henry V. an act of parliament ordered all the geese in England to be counted, and the sheriffs of the counties were required to furnish six arrow feathers from each goose.

Chas. T. Cornman writes that he has sold to H. A. Shetler, of Williamsport, Pa., his entire collection of Exhibition Games, Cornish and White Indian Games, Black Sumatras, Game and

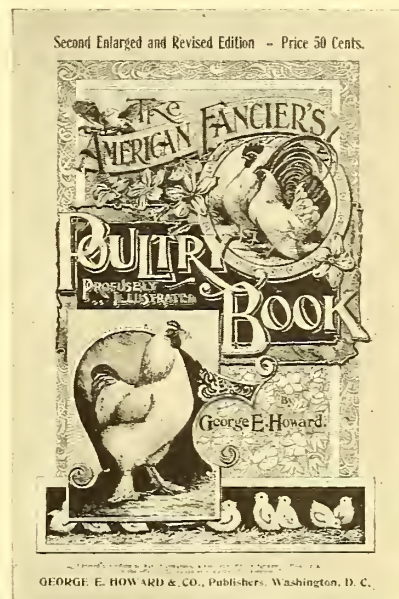
Variety Bantams and leased him his plant. Mr. Cornman will confine himself exclusively to the breeding of Exhibition Black Breasted Red Games and Game Bantams.

At the annual meeting of the American White Plymouth Rock Club, held at Chicago, January 11th, a committee composed of Mrs. Nellie Hawks, S. M. Williams, and E. B. Eddy, was appointed to convey to the poultry press their thanks for the space allotted to the club in the various journals, and to express the hope that this kindness could at some future time be repaid by the club in a substantial manner.

N. V. Witbeck, Burnt Hills, N. Y., sent us for inspection several sickle feathers from his Buff Cochins Bantam cockerels. They are very good in color, with strong buff under-color.

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It is a Great Book.

The American Fancier's Poultry Book has had a phenomenal sale, and the second edition is going rapidly, so rapidly indeed, that a third edition will be necessary before the season is over. Every one who is interested in poultry, for profit or pleasure, should have a copy of the book. It should be in the home of every lover of poultry. No other book on poultry raising has received the praise this book has.

The American Fancier's Poultry Book contains illustrated chapters on The Poultry Industry, General Management, The Egg, Incubation, The Chick, Recipes for Feeding, Feeding for Eggs, House Building, Keeping Eggs, Caponizing, Diseases, The Standard Breeds of Poultry, The American Class, Asiatic Class, Mediterranean Class, Polish Class, Hamburg Class, French Class, English Class, Game and Game Bantam Class, Bantam Class—Other Than Game, Miscellaneous Class, Turkeys, Ducks, Geese, and Swans.

To Subscribers.

A copy of this book, as described above, will be given free to all subscribers to THE FEATHER, at the regular subscription price of 50 cents a year. THE FEATHER and the book for only 50 cents. Send in your subscription without delay to

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Practical Poultry Raising

FOR THE
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Practical Suggestions.

Editor The Feather:

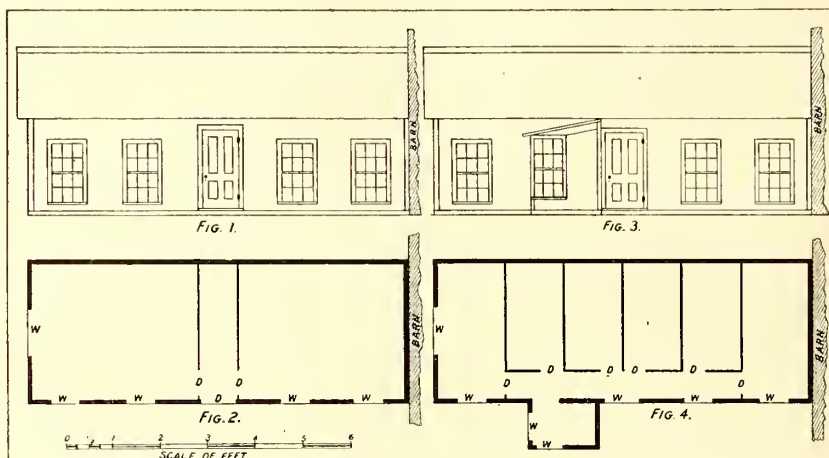
A subscriber to THE FEATHER who has recently moved on a farm, and has several matings of strictly fancy fowls is in trouble and wishes me to aid him in his dilemma. He says:

"I moved upon the farm late in the fall, too late to erect new poultry-houses, and as I have six different matings to provide accommodations for and only two pens in which to put them, I am at a loss to know just what to do. I will describe the situation to you and trust that you will aid me by sketches and specifications in the next issue of THE FEATHER, as I infer from your article in the December number that you will extend a helping hand to those who ask for it. The only building upon the farm that is at all suitable, is in the form of a wing, 12 feet by 32 feet extending toward the south from the south end of the barn. It has one large window in the south end, quite well up from the floor; and four windows and one door in the east side, the door being near the center. From this door an alley extends across the building, leaving a pen at each end about 12 feet by 14 feet in size. I have thirty-six birds and consider the building ample in capacity, but the knotty question with me is, how to arrange it so as to accommodate my six matings. I have one male and four females in each of four matings, and one male and seven females in each of two matings. How can I fix it to accommodate the six lots, having a good place for dust-bath and scratching-pen, with plenty of light, without putting windows in the west side, thus making it much colder? The work must be done without removing the birds as I have no where else to put them."

The accompanying sketches are intended for this inquirer, more particularly, but may be of use to many others, by way of suggestion, in whole or in part.

We will call Fig. 1 a fair representation of the building as it now is; and Fig. 2, a ground plan of same. In the first place, carefully remove the two partitions in Fig. 2, taking every precaution against frightening the fowls. Next put in the center partition Fig. 4, then drive all of the fowls into the south half of the building, close the door in the center partition and put in the partitions and hang the doors in the next half of the building. Next, drive the birds into the north part and finish partitions and doors in south part. Now put each mating into a pen appropriate to its number of birds, and close all doors between pens and alley. Now carefully remove the window next south of the outside door and build a bay window 4 feet by 6 feet in size as shown in Fig. 3 and Fig. 4. It would be well to have the roof slope toward the south. You will need one extra window, so as to have one face the south and one face the east, as shown in Fig. 4.

Upon the floor of this annex, it would be well to put about six inches of clean, fine sand (don't use road dust) and sifted coal ashes, with a liberal "seasoning" of some good insect powder, and upon this you might put about one foot in depth of oat chaff or other litter.



In this way you can give, alternately, each pen of birds an opportunity to visit the light and pleasant bath-room and dining-room, and the birds "will do the rest." I hope that the foregoing suggestion will prove satisfactory to our friend and his fine birds. Next!

F. A. RAPPEYE.

Showing Birds—Inbreeding.

Editor The Feather:

When young and old fowls compete in the show-room in separate pens, for instance, one pen of fowls over one year old, and another pen

under one year old, would they be entered in pens as "chicks" and "fowls," and where does the word "chick" stop? How far can we inbreed with safety? Can a strain be perpetuated and kept distinct without introducing fresh blood? —A SUBSCRIBER.

Yes. The word "chick" stops when the winter shows begin after the first of December. Young and old fowls compete together in pens after that time.

To the fancier who breeds for points, and the practical breeder who breeds for qualities, the laws governing breeding mean two different things. This subject is one over which there is much contention, and it needs to be thoroughly studied by actual observation to be understood. Many examples are known where the effect of the male on the progeny after the first copulation with the hen, extends through the larger part, if not the whole, of her life. This knowledge has been skillfully used by

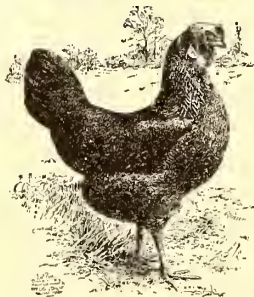
breeders in cases where it is desired to infuse into the breed some special qualities of another breed, such as hardness of constitution, special markings of plumage, etc. A cross thus thrown in and bred out again may be quickly accomplished by this means. There is a tendency for characteristics of remote ancestors to reappear in their descendants, although but slightly manifested, if at all, in near descendants. There is a tendency to return to the original types of structure and character.

MORE THAN A SCORE OF SHOWS WON

During the past season by customers of

BRIGHT'S

BROWN LEGHORNS
BARRED P. ROCKS



THESE honors, with those won at America's Greatest Show, Boston, 1898, including six firsts and all the collection and grand specials, is convincing evidence that this stock has no superior. My birds this year show the results of one more year of careful mating and are the best I ever owned. They are strong all-around show birds and breeders. The better you know them the better they will please you.

The Best Breeding
Stock I Ever Had For Sale.

Exhibition Birds for the
December Shows....

GROVE HILL POULTRY YARDS,

A. C. SMITH, Superintendent,

Box 4H, Waltham, Mass.

W. E. BRIGHT, Prop.

WORK FOR THE MONTH.

Mating fowls that are near kin is strongly condemned by some practical breeders, but this remating of the offspring to the parent stock may be successfully accomplished to the improvement of the flock. The first approach to this method should not be so closely allied as brothers and sisters, but for the first season there need be no hesitancy in pairing a hen with her chicks. The harm of inbreeding is the constant repetition without any regard to selection; this is undoubtedly dangerous to the flock and certainly reduces the size of the birds and impairs their constitutions.

When fresh blood is needed in a flock, the best plan is to purchase a vigorous cockerel from some reliable breeder of the same strain of fowls, and mate him with the females of your flocks. In selecting the cockerel be careful of his pedigree, and watchful that the stock from which he is purchased has not been subjected to inbreeding to any great extent. New blood thus infused in the flock will surely show its good results directly. The influence of new blood is extremely encouraging to the breeder, as it is the foundation on which the life and hope of hardy constitutions depends.

A Remedy for Roup.

Editor The Feather:

In reading your journal I find that you have a column for diseases of poultry. As I am a beginner in this line I have had to contend with a good deal of roup. I have tried a great many different kinds of remedies that had been recommended to me, but failed to find one that has given me as much satisfaction as Campho-Phenique, from which I got the best of results. As I have never seen it recommended and thought it probably of some value to your readers, I mention it to you.

I apply it with a bent-end medicine dropper into the back of the nose through the upper bill, two to three drops, once a day. Campho-Phenique is a great antiseptic and germicide, and as they all seem to tell me about some carbolated vaseline, etc., for the roup, I considered this the best in that line, and it did prove very satisfactory to me. Hoping this will be of some value to you and your readers, I remain,

Respectfully,

Dr. B. J. LUDWIG,
St. Louis, Mo.

The Proper Food.

Editor The Feather:

Will you kindly inform me as to the proper food for my chickens to keep them in a laying condition? I feed my hens screenings and corn, and out of ten hens only one lays.—W. O. W., Brooklyn, N. Y.

The "proper food" for your hens, would not be screenings and corn; this we would think would be the improper food for them. Screenings is practically a waste to feed, and too much corn is not to the advantage of the hens. See our feeding recipe in this department as given in "Work for the Month." Follow these instructions and we feel quite sure you will average more than one egg a day from ten hens.

Which Are the Best Winter Layers?

Editor The Feather:

I am desirous of ascertaining which is the best breed of all poultrydom for winter laying, and to that end, I invite brief answers from fellow poultrymen giving the name of the breed and the date of hatch for pullets to lay in No-

This is the last month of winter, but the conditions which governed the poultryyard in January are unchanged. The warmth of the fowls during the day, as well as when on the roost, should be looked after. Nothing better can be devised than the open shed attached to the poultry-house. When the rains and snows are driving all before them in their fury the fowls should be ensconced behind a sheltering curtain attached to the front of the shed. The fowls should be fed a warm mash in the morning of cut clover hay, scalded and mixed with bran or middlings. Steep the clover at night in a tub or bucket with a cover, and in the morning it will be soft and mushy, with an odor that reminds one of a field of new mown hay. Feed this mash each morning. For the noonday meal, feed wheat, oats, or barley, and at night feed liberally of whole corn. The grain food must be scattered in the litter on the floor of scratching-shed or house. Two or three times a week feed green-cut bones, and vary the diet with green foods, as cabbage, lettuce, etc. Cull your birds closely, and all not intended for breeders should be sent to market. Your pens of breeders should all be mated now and in full operation for the coming season. Select as breeders only those birds that are vigorous and in the best of health. A sick or puny bird should never be in a breeding-pen. Remember that only the best should be used as the parent stock, and none are too good for that. Feed liberally of ground bone and meat to your breeders. Don't neglect doing the little things; they count much in the end

1899 FEBRUARY 1899						
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vember, December, and January the greatest quantity of eggs, the necessary care and conditions being met. It is expected that answers will be shorn of personal prejudice. Above query is subject to the permission and kind indulgence of the editor of THE FEATHER.

FRED. E. TRUEBELL,

Ausable Forks, N. Y.

[The above query is an interesting one to answer. It is a chance for our readers to give their actual observations as to which breed they have found to be the best winter layers; and also whether the breed of fowls they are keeping are paying for their keep. We will be pleased to publish any answers that may be given the above query, and invite as many of our readers as wish to make answers for publication in these columns.—Ed.]

Not Satisfied with Results.

Editor The Feather:

I have kept chickens for a year, only twenty, but I expected to make some money from them.

I have not. I have paid out more for them than their worth. They are in good health. Could you inform me in your paper what to do? I receive one egg every other day. Is mash made of bran and cornmeal good for them? I feed it in the morning.—R. C., Chicago, Ill.

From the above explanation it would be difficult to tell our correspondent the proper thing to do under the circumstances. We would like to know the kind of fowls he keeps, their surroundings, and just what else he gives them besides his bran and cornmeal mash in the morning. We are of the opinion, however, that the fowls are over-fed and over-fat, being practically worthless in this condition. The morning mash can be improved upon by adding cut clover and animal meal or beef scraps. Too much cornmeal is not good, it is too fattening. Feed sparingly and give a light grain food, wheat, in the scratching

WHITE WYANDOTTES.



200 COCKERELS,

—AT—

\$2 AND \$3 EACH.

BUY THEM AT

...HEADQUARTERS...

THE HOME OF THE

WHITE WYANDOTTE

...WILLOWCREST POULTRY YARDS...

GOSHEN, N. Y.

material, as has been recommended heretofore in these columns. Use plenty of grit and pure, fresh water.

It is Black-Head.

Editor The Feather:

I ask for information. There is a disease among my turkeys. Their droppings are yellow, like the yolk of an egg, and are thin and slimy. Their legs are weak, and they walk "lopped" over to the right side. They lose their appetite, and die in about eight days, and there is an offensive smell about them. I would like to know what to do for them. I can not find anything to help them.—Geo. A. T., Youngstown, N. Y.

Mr. J. F. Crangle, one of the best-known authorities on turkeys, says:

"In regard to the diseases among the turkeys, I should say from the description that it is what has been named 'black-head.' After a bird has this disease for a few days, and unless it is taken in hand at once when first discovered, there is no hope, as it is fatal. I know of no remedy. It is in the blood, and sometime or other this person has had either a female or a male bird that has had black-head. About the best thing for a person to do is to take all the birds he has which are not infected with the disease, kill them for market and start over again. All birds that show symptoms of the disease had better be killed and buried."

Tumblers—Plymouth Rocks—Owls.

Editor The Feather:

I would like to ask you a few questions through your valuable paper.

1. Is there anything that can be done with a young Fantail to make the tail sit up stylish and spread out wide?

2. How many kinds of Tumblers are there, and are Parlor Tumblers the same as Inside Tumblers, and are said birds bootied?

3. Does a thoroughbred Plymouth Rock have feathers on his legs?

4. Which of the Owls are considered the most fancy?

Hope you will answer these questions through your valuable paper.—W. S. L., Sonora, N. Y.

1. We know of no method to make the tail of young Fantails sit up stylish and spread out wide. If the youngsters are of good parent stock, their tails will come all right, providing they are not wry-tailed. If they are wry-tailed treat them as has been told in these columns before.

2. The list of Tumblers includes some thirteen varieties as follows: Almonds, Agates, (Red), Agates, (Yellow), Mottles, (Black), Rosewings, (Black), Rosewings, (Red), Splashes, Wholefeathers, (Red), Wholefeathers, (Yellow), Kites, Blues, Balds, (Blue, Silver, Red, Black and Yellow), Beads (Blue, Silver, Red, Yellow, and Black). Parlor Tumblers are the same as Inside Tumblers; some Flying Tumblers are bootied.

3. A Barred Plymouth Rock is clean legged.

4. It is difficult to say which is to be considered the most fancy. The African Owl is a great favorite among breeders of pigeons, but on the other hand, the English Owl justly claims many admirers. It is only a matter of fancy.

Flying Homers.

Editor The Feather:

Will you please let me know through THE FEATHER the points that Flying Homers are judged by?—H. E. L., Stamford, Conn.

Flying Homers are not judged by points like other pigeons. Their awards are given them according to their records for flying. The ugliest plumaged bird may win a first award, if his record is the greatest of all birds exhibited in his class.



CRESCENT FARM

Box F, KENT, OHIO, U. S. A.

BUFF COCHINS

Winners at MADISON SQUARE GARDEN, NEW YORK, BUFFALO, CLEVELAND and ELMIRA.

WHITE LEGHORNS

Which won nearly everything Competed for at Buffalo and Cleveland Last season.

We can furnish some very choice young stock bred from the above winners.

Send for Catalogue.

Address E. T. BLOOD, Mangr.

REV. HENRY M. LADD, Prop.

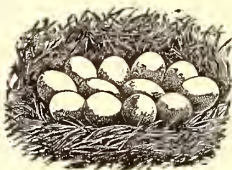
Will sell one-half of my breeding stock of 1898,

If you want the

Cream of WHITE WYANDOTTES

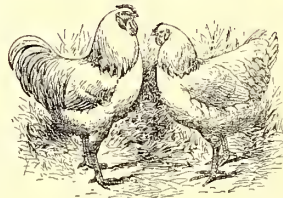
Deal with me, the originator and breeder of the finest dark-egg strain in America. And the only strain that pleases both the fancier and the practical poultryman. In the great egg display at the Boston show, Jan. '98, my strain was King, winning first and second for best dozen brown, first for heaviest dozen (any color), first for best dozen Wyandottes, and Farm-Poultry's special \$10 in gold for the best and largest twenty-four or more Wyandotte eggs. The next week at the State show, St. Johnsbury, Vt., with eighteen birds, twelve entries, I won in strong competition twenty-three regular and special prizes, including the silver cup for the best collection of W. Wyandottes, three specials for best breeding-pens, and special for best cock, cockerel, hen, and pullet. Stock and eggs for sale.

W. E. MACK, Woodstock, Vt.



including the silver cup for the best collection of W. Wyandottes, three specials for best breeding-pens, and special for best cock, cockerel, hen, and pullet.

Here's to Winners!



Townsend is selling them at way down figures. He has on hand more than he can use this season, and for that reason he is making a sacrifice sale of his prime birds.

WHITE WYANDOTTES

From the best blood in America. Besides Superior Buff, Black, and Partridge Cochins, Barred and White Plymouth Rocks, Langshans, Javas, and American Dominiques. Circulars free. Stamp for reply.

EGGS, \$1 per Setting.

CHAS. C. TOWNSEND, Route 3, Greenbank, West Chester, Pa.



Pedigreed Light Brahmas.

Famous for
their
Heavy Laying.

EGGS

1 setting, \$3
2 settings, \$5
4 settings, \$9

EGGS

EGGS

1 setting, \$3
2 settings, \$5
4 settings, \$9

EGGS

Our stock is so bred that it now combines Utility with Beauty. We mate our birds to get Record layers; but that isn't our sole aim, for our kind of Utility bird must score well on Even get a place as a breeder in the pen. Garnished with fine feathers, but lacking Glory as an egg-producer, wouldn't admit a Specimen into one of our breeding-pens, even if she scored 90 or bet'r. She must combine both or have no use for her as a breeder. The male too, in A breeding-pen, must be from a similar line. The record we keep includes weight of each egg, Chicks' weight monthly, ancestors' sex, hygienic Heredity, etc., which enables us to breed with out groping in the dark. This puts us in position to give a pedigree certificate, prolific in information of fancy and utility p'ts of chick or egg, or stock behind it, with all orders. Chicks hatched from our eggs have won in hands of our customers, and will continue to do so. They differ from other strains in that they win at shows, and at egg contests, in competition with "egg machines." We have prepared the finest catalogue ever issued by a poultry breeder. To discourage idle curiosity, we charge 10 cents for it, which amount may be deducted from order.

Blood
Will
Tell.

Hartnest Park, Box 10, Framingham, Mass.

SAMUEL FOOTE, Supt.

To avoid mistakes, address exactly as above.

We show the
Stock behind
the Eggs.

An Interesting Trip.

Editor The Feather:

At the recent Washington show I again entered my long-distance bird, "Punta Gorda," which covered the greatest distance, that is, all distances added, of any District bird.

Should you have the space in your much valued FEATHER, I shall endeavor to give you an article to help fill same, and which, at the same time, I am quite sure, will be appreciated by many of your readers, especially the Homer fanciers.

One Sunday morning last August, at 3 o'clock, my youngest son, Clarence, left with me in my buggy for an extended trip through the Blue Ridge Mountains, we carrying with us eight Homers. At 4:30 p. m., we reached Hamilton, Va., distance forty miles, where I liberated a bird bearing a message to my wife, visited all the principal towns within a radius of fifteen miles from Hamilton, liberating birds bearing messages to my wife from all places of interest. On Wednesday my wife sent me nine more birds; on Thursday my daughter, who was staying near Hamilton, went with me to Snicker's Gap Inn, which is situated on the highest point of the Blue Ridge Mountains. I liberated three birds from that point, bearing each a message to my wife, and the autographs of fourteen of the boarders, mostly residents of Washington. I have been on a great many grand and beautiful trips, but owing to my birds and the constant communication with my family, this afforded me the greatest pleasure of my life.

I have been told by some of the oldest fanciers that it is very dangerous to fly birds in mountainous countries; hence, I am very proud to say, my birds all came home, with my messages to prove it. I left Hamilton Saturday morning at 5 o'clock and reached home at 2 p. m. same day, having covered the distance in exactly nine hours.—E. L. BARCLAY.

Came Home at Last.

Editor The Feather:

I take pleasure in communicating to you the following interesting fact which happened to two of my birds (both Homers) this present winter. About 1:35 p. m. New Year's Eve, I liberated from No. 70 Duane St., New York City, two birds—one a Red C. cock, B. S. S. No. 4, 98, and the other a Blue C. hen, B. S. S. No. 3, 98, to fly to my lofts at Alpine, N. J., a distance of twenty-one miles. As both birds had flown this distance several times in about thirty-five minutes, I did not doubt but what they would arrive safe and sound as usual. But much to my surprise neither bird reached home. I had about given up ever hearing of either again, when, by chance, I happened to see in the *New York Sun* of January 3d, the following clipping:

Pilot Sullivan brought the Phoenix Line Steamer "British King" into port to-day. He says that on New Year's morning, 11 a. m., when cruising in No. 7, to the eastward of Sandy Hook Lightship about fifteen miles, a Homing Pigeon fell exhausted to the pilot boat's deck. Its leg-tag was marked B. S. S. No. 3, 98. And the pilot liberated the bird the following day about 1 p. m.

Inquiries at the Pilot Commission Office convinced me beyond doubt that this was one of my birds, which, no doubt, had been driven to sea by the severe snow and wind storm of that date.

The other to which I had attached a message holder containing note wishing all a Happy New Year reached home this p. m. (January 21) in good condition and full of fight with mesage and holder attached to leg.—CHAS. H. FISCHER.

Homers Lost.

Mr. E. L. Barclay, 812 21st St. N. W., this city, reports the loss of the following Homers: F. E. M. 431; F. E. M. 512; F. E. M. 364; F. E. M. 496. Finder will please communicate with Mr. Barclay, at the above address.

For Sale Cheap.

\$1 to \$1.50 each gets some fine bargains in Chickens and Ducks. Turkeys, \$5 a pair. Toulouse Geese, \$2.50. Also Sheep, Hogs, Beagle Hounds, Maltese Cats, cheap.

R. Reid Harding,
Forest Depot, Va.

SEED DUE BILL FREE

To get new customers to test my seeds I will mail my handsome catalogue for 1899, lithographed and beautifully illustrated, and a 10c Due Bill, good for 10c. worth of seeds for trial, absolutely free. It is full of bargains. All the Best Seeds, Bulbs, Plants, Roses, new Fruits, Farm Seeds, Potatoes, etc., at lowest prices. Ten Great Novelties offered without names. I will pay \$50. FOR A NAME for each. Don't buy your stock until you see this new catalogue, several varieties shown in colors. Great inducements for orders this year. You will be surprised at my bargain offers. Send your address on Postal to-day. Tell your friends to send too. Old customers will receive a copy. F. B. MILLS, Seedsman, Box 118, Rose Hill, N. Y.

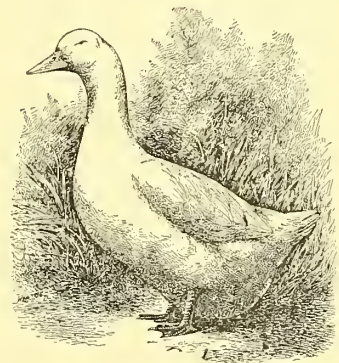
"We have used nearly all the Poultry Foods and Powders, offered for sale during the last twelve years, but have found nothing to compare with

MARSHALL'S POULTRY FOOD."

So say Pumphrey & Parsons, Congress Heights, D. C., breeders of pure White Leghorns and Black Minorcas; and winners of two first premiums on Leghorns and one premium on Minorcas, at the recent Poultry Show in Washington.

For sale, in 50-cent packages, by Poultry Supply Co., 1233 7th St. N. W., Washington, D. C., and at the general grocery and feed stores.

ATLANTIC FARM.



Hallock's Pekins

Are among the first on the market, are sought for by the trade, command the highest prices and give the best of satisfaction in every way. And in the show room it's the same story. The proof is the long string of blue ribbons they've won at New York, Boston, Washington, D. C., and other shows. Breeders are now ready for delivery at reasonable prices. A free booklet gives the particulars. Address,

A. J. HALLOCK,

Box F, Speonk, L. I., N. Y.

VASS' BUFF ORPINGTONS ARE IN THE LEAD.

Madison Square Garden, (N. Y.) Jan. 31 to Feb. 4, '99, 1st pen, 3d and 4th pullets. Boston, Jan. 17, 20, 1st cockerel, 1st pullet. Washington, N. J., Jan. 17-19, 1st and 2d pullets, 2d pen. Mt. Gretna, Pa. Aug. 15-19, '98, 1st cock, 1st hen, 1st cockerel, 1st pullet. Trenton, Sept. 26-30, 1st pair fowls, 2d pair chicks. Nazareth, 1st pair fowls, 2d pair chicks; Buff Rocks, 1st and 2d chicks; W. Wyandottes, 1st pair chicks. Never have I seen a finer lot of Buff Orpingtons than I have now imported. Buff Orpington eggs, \$3 per 13; \$6 per 30. W. Wyandotte eggs, \$1.50 per 13; \$3 per 30. Stock for sale. Satisfaction guaranteed. Circular free. C. E. VASS, Washington, N. J.

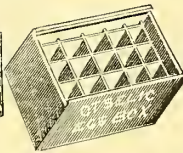
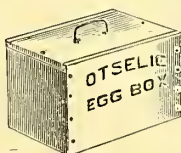
...OTSELIC POULTRY YARDS...

W. A. SMITH, Proprietor.

Breeder of Fancy Poultry and Pet Stock. I also Manufacture Egg Boxes.

My prices for '99 as follows:

	per doz.	per 100.
15 Egg Size, \$1.25	\$ 8.00	
30 " "	1.60	11.00
45 " "	1.95	14.00
60 " "	2.50	17.00
75 " "	2.65	20.00
100 " "	3.40	25.00



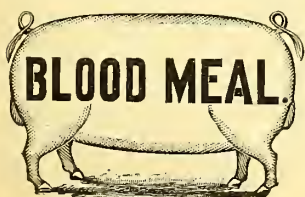
EGGS FOR HATCHING:

This is the Safest, Neatest, and Best Egg Box on the Market.

Also Hard Wood Rods for Show Coops.

3/4 in. diam't'r.	5/8 in. diam't'r.
2 ft lg. 45c 100	2 ft lg. 50c 100
3 " 55c 100	3 " 60c 100
4 " 65c 100	4 " 70c 100
5 " 75c 100	5 " 80c 100

\$1 per 15; \$6 per 100. Golden and Silver Wyandottes, White and Black Minorcas, S. C. White and Brown Leghorns, R. C. White and Brown Leghorns, Anconas, Black and White Hamburgs, Buff, White, and Black Pekin Bantams, and Booted White Bantams. Pekin and Rouen Ducks' eggs, \$1 per 11. PET STOCK—Young Belgian Hares, \$2 a pair; young White Angora Rabbits, \$2; young Himalaya Rabbits, \$3; young White English Rabbits, \$1; Guinea Pigs, \$1; Abyssinian Pigs, \$2; Peruvian Pigs, \$3. Address, W. A. SMITH, Whitney's Point, N. Y.



IF YOU WANT YOUR HENS TO LAY, FEED THEM

...DEODORIZED BLOOD MEAL...

(Summer's Process.)

Only Animal Meal on the market that is Odorless. Blood contains all the elements of the egg. It will make your hens lay when nothing else will. It will make young chicks grow faster than any other food. We have 2,000 unsolicited testimonials from satisfied users. Send for circulars or try a sample order. Blood Meal is the most highly concentrated food made. 10-pound bags 50 cents each; 50-pound bags, \$2. Order from our nearest house. Agents wanted.

F. S. BURCH & CO.,

{ 68 Murray Street, New York.
178 Michigan Street, Chicago.
1110 Farnam Street, Omaha.

THE WASHINGTON SHOW.

A Fine Display of Poultry at the Fourth Annual Exhibition.

THE fourth annual exhibition of the National Poultry and Pigeon Association was held at National Rifles' Armory, Washington, D. C., January 10-14, 1899. There was a good display of poultry, and competition in some of the classes was very keen. The show was cooped with the Association's own coops, and owing to the very limited space, they were placed two tiers high.

The officers of the Association are John L. Waggaman, president; H. A. Munson, vice-president; W. Seymour McLeod, secretary; S. W. Stinemetz, treasurer; J. E. Welch, superintendent. The latter was appointed owing to the illness of George E. Howard, who was the appointed superintendent. Messrs. D. J. Lambert, D. A. Nichols, and George O. Brown were the judges.

The Plymouth Rock classes were well filled with representative birds. The quality was of the best. In Barred Rocks the winners were Wm. Ellery Bright, C. H. Shaylor, Geo. H. Morris, John Ridgely of H. A. E. Warner, Uplands Poultry Farm, and Chas. L. Blanton. Mr. Warner's birds were certainly good winners, and his first cockerel was well placed as was his first pen. F. G. Bean and Henry Palmer, Jr., were the principal winners in Buff Rocks. M. H. Louer, E. S. Girard, Mrs. R. C. Booth, and J. H. Janney were also winners in this class. The White Rocks were a splendid class, much better than have been shown here before. There was a strong battle for supremacy and each point was won with merit. F. G. Bean won the largest portion of the honors, and the balance was divided between A. G. Barlow, E. R. Pitcher, J. F. Defandorf, Luray Poultry Yards, R. E. Long, and L. F. Miller. It was unfortunate that Mr. Miller's two pens were delayed in reaching the show-room, as otherwise they would, no doubt, have come in for first and second, instead of for second and third pens.

White and Buff Wyandottes were out in force. They were fine and the honors were evenly divided, as shown in the list of awards. Silvers and Goldens were not as many as they should be. John L. Cost had things all his own way on Light Brahmas, he made a clean job of it, and only dropped second pen to Uplands Poultry Farm, to save explaining how the thing was done. Mr. Cost's birds were good, and some rare good birds were in his collection.

Cochins were a good lot. Buffs were never better in Washington, and the birds from the Lynnhurst Poultry Yards were gems. Elmwood Farm was second largest winner in Buffs. R. E. Long, E. S. Girard, and J. W. Kistler, also won in this class. Partridge Cochins were fully as good as the Buffs, and the Lynnhurst Yards were the principal winners in this class. Elmwood Farm, Uplands Poultry Farm, and R. E. Long also won some choice positions. In Black and White Cochins one saw some

good specimens. They were of the best quality and the winners were well placed. Black Langshans were equal to previous displays in quality. D. J. Hoge & Son showed a good string of birds and won choice positions. F. G. Bean had some good birds, his first cockerel and first pullet being exceptionally good. J. A. Stewart, Geo. Schrade, and J. W. Kistler, were also winners in Blacks. White Langshans were few, all awards going to F. G. Bean.

Brown Leghorns were out in good numbers and extra good quality, the winning birds deserving their places. H. W. Smith won a large proportion of the prizes, and W. H. Barksdale did equally as well as Mr. Smith. Mrs. R. C. Booth, and E. B. Cridler completed the winnings in the class. Whites were good; perhaps better than last year.

also a good winner in this class. His birds were splendid specimens of this popular variety. C. W. Jerome & Co. showed a few first-class White Minorcas.

The display of Polish was very good, and the honors in these classes were divided between H. A. Munson, and Belmont Farm. Mr. Munson made an exhibit of three Black Polish pullets with black crests. These were bred by him and he hopes this year to breed a cockerel worthy of mating with them. They were very pretty and novel to look at. Hamburgs were a good class and some excellent specimens were shown. Uplands Poultry Farm, James Mayo, C. D. Perkins, and Belmont Farm being the winners.

Games were a fine class. There were some excellent birds shown here. At the head stood the B. B. Reds. In this class Wade H. D. Warfield did some fine winning, carrying three firsts and one third on four entries. Mr. Warfield takes extreme pleasure in Games and his birds always win choice places. He repeated his work of a year ago in this class. Peirce Bros. came out well on their birds. The list of Game and Game Bantam breeders at this show included some of the most successful breeders of Games in the East, and one can judge that the stock must necessarily be fine. B. C. Thornton won heavily in all his classes; this is a habit of his and he can not help it. Belmont Farm, George Corson, W. W. Hepburn, Stewart Tansill, Geo. Kinzle, F. T. Thompson, Elmwood Farm, and Geo. Schrade, were also winners. Wood & Figgins showed some Black Sumatras that were a delight to see. They are from the original strain of Nelson R. Wood, who is the senior member of the above firm.

Bantams, other than Game, were good, some of each class being particularly fine and worthy of mention. There was quite an aggregation of miscellaneous classes entered. Turkeys and waterfowl were not many in numbers, about the smallest display ever shown here.

The Star Incubator and Brooder Company had a large display of their machines in operation. These machines are well known in this section and many of them are in use. The American Cereal Company made a fine display of their poultry food. This food has grown into popular favor and is now in general use as a staple article of diet for all "hens." J. H. Slack showed the Wilson Bros.' bone mills and a full line of poultry supplies. The Stratton & Osborne bone mills were also on exhibition.

E. L. Barclay showed a beautiful collection of Homing Pigeons, among them his famous long-distance bird, "Punta Gorda." Mr. Barclay has a good strain of birds and takes delight in breeding and flying them. Following is a full list of awards as prepared by the secretary:

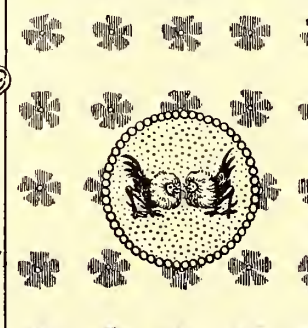
Official Awards.

PLYMOUTH ROCKS.

BARRED—Ck 1, hen 5, pul 3 and 5, C. H. Shaylor; ck 2, hen 4, ck 1 2, 4, and 5, pul 1, pen 2, W. E. Bright; ck 3, Geo. H. Morris; ck 4, hen 2, ck 1 3, Jno. Ridgely; ck 5, ck 1 1, pen 1, A. E. Warner; hen 1 and 3, pul 2 and 4, pen 3 and 4, Uplands Poultry Farm; pen 5, C. L. Blanton. BUFF—Ck 1 and 2, hen 4, ck 1 1 and 5, pul 2, 3, and 5, pen 1, F. G. Bean; ck 3, hen 2, ck 1 3, pul 4, Henry Palmer, Jr.; hen 1, ck 1 4, pul 1, M. H. Louer; hen 3,

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GEORGE E. HOWARD & Co.,
 514 11th St. N. W., Washington, D. C.

H. E. Van Deman, A. J. McCain, Pumphrey & Parsons, G. A. Geyer, and C. M. Bartlett were all winners in Whites. Buff Leghorns were out in full force and quality. L. S. Bache did fine winning and took the silver cup offered by the Buff Leghorn Club. What Mr. Bache did not win was divided between Mrs. Turner, A. J. McCain, E. S. Girard, H. Brown, R. C. Grinder, H. Tiemann, and G. W. Kinzer.

It was a good class of Black Minorcas all through, and many winners at other shows were noted in the list. John M. Allen had a good string of birds entered, and won a proportionately large list of ribbons. His young birds were extremely good. Chas. L. Blanton was

E. S. Girard; hen 5, ckl 2, Mrs. R. C. Booth; pen 2, J. H. Janney. WHITE—Ck 1 and 3, hen 3 and 4, ckl 1 and 3, pul 1 and 4, pen 1, F. G. Bean; ck 2, A. G. Barlow; ck 4, E. R. Pitcher; hen 1 and 2, ckl 2, J. F. Defandorf; hen 5, ckl 5, pul 2, Lufay Poultry Yards; ckl 4, pul 3 and 5, R. E. Long; pen 2 and 3, L. F. Miller.

WYANDOTTES.

SILVER—Ck 1, hen 1, ckl 1, pul 1, D. L. Stauffer; ckl 2, pul 2, Theo. Barnes. GOLDEN—Ck 1, hen 1, ckl 3, pul 3, Belmont Farm; hen 2, ckl 2, D. L. Stauffer; ckl 1, pul 1 and 2, L. H. Davis. WHITE—Ck 1, W. C. Brown; ck 2, hen 3, ckl 2 and 3, pen 2, Uplands Poultry Farm; ck 3, hen 1, pen 1, J. B. Riggs; ck 4, hen 5, pul 5, A. P. Groves; ck 5, hen 4, pul 1 and 2, pen 3, D. L. Stauffer; hen 2, ckl 1, pen 4, J. B. Pyle; ckl 5, M. B. Hickson; pul 3, H. W. Sweeney; pul 4, Mrs. E. Turner. BUFF—Ck 1, hen 2 and 3, ckl 2 and 3, pul 1 and 4, pen 1, D. L. Stauffer; ck 2, hen 4, pul 5, pen 2, W. S. Palmer; ck 3, hen 1, ckl 4 and 5, pul 2 and 3, A. P. Groves; ckl 1, J. D. May; pen 3, E. S. Girard. BLACK—Ck 1, hen 1, pul 2, Belmont Farm; ck 2, hen 2, ckl 1, pul 1, D. L. Stauffer.

JAVAS.

BLACK—All to Belmont Farm. MOTTLED—All to Belmont Farm.

AMERICAN DOMINIKES.

All to Belmont Farm.

BRAHMAS.

LIGHT—Ck 1, 2, 3, 4, and 5, hen 1, 2, 3, 4, and 5, ckl 1, 2, 3, 4, and 5, pul 1, 2, 3, 4, and 5, pen 1, Jno. L. Cost; pen 2, Uplands Poultry Farm.

COCHINS.

BUFF—Ck 1 and 4, hen 2 and 3, ckl 1, 2, 4, and 5, pul 1, 2, 4, and 5, pen 1 and 2, Lynnhurst Poultry Yards; ck 2 and 3, hen 4 and 5, ckl 3 and 5, Elmwood Farm; ck 5, R. E. Long; hen 1, pul 3, E. S. Girard; pen 3, J. W. Kistler. PARTRIDGE—Ck 1, hen 1 and 2, ckl 3 and 5, pul 1 and 5, pen 1, Lynnhurst Poultry Yards; hen 3, ckl 1 and 2, pul 4, Elmwood Farm; ckl 4, R. E. Long; pul 2 and 3, Uplands Poultry Farm. WHITE—Ck 1 and 2, hen 1 and 2, ckl 1 and 3, pen 1, Lynnhurst Poultry Yards; ckl 2, pul 2, Belmont Farm. BLACK—Ck 1, hen 3, ckl 2, pul 3, Belmont Farm; ck 2, hen 2, C. E. Boileau & Son; hen 1 and 4, ckl 1, pul 1 and 2, pen 1, Lynnhurst Poultry Yards.

LANGSHANS.

BLACK—Ck 1, hen 3 and 5, J. A. Stewart; ck 2 and 4, hen 1, ckl 2 and 4, pul 2 and 3, pen 1, D. J. Hoge & Son; ck 3, hen 4, ckl 1 and 3, pul 1, 4, and 5, F. G. Bean; ck 5, hen 2, Geo. Schrade; pen 2, J. W. Kistler. WHITE—All to F. G. Bean.

LEGHORNS.

BROWN—Ck 1 and 5, hen 1, 3, and 4, pul 4 and 5, pen 2, H. W. Smith; ck 2, hen 2 and 5, ckl 1, 2, and 3, pul 1 and 2, pen 4, W. H. Barksdale; ck 3 and 4, ckl 4, pen 3, Mrs. R. C. Booth; ck 5, pul 3, pen 1, E. B. Crider. WHITE—Ck 1, ckl 3, pul 4, pen 1, H. E. VanDeman; ck 2, hen 2, A. J. McCain; hen 1, ckl 2, pul 1, Humphrey & Parsons; ckl 1, pul 5, G. A. Geyer; pul 2 and 3, E. B. Crider; pen 2, C. M. Bartlett. R. C. WHITE—All to C. D. Perkins. BUFF—Ck 1, hen 1 and 2, ckl 2 and 4, pul 1 and 2, pen 2, L. S. Bache; ck 2, ckl 5, Mrs. Turner; ck 3, A. J. McCain; hen 3 and 5, pul 5, pen 3 and 4, E. S. Girard; hen 4, ckl 3, H. Brown; ckl 1, R. C. Grinder; pul 3 and 4, H. Tiemann; pen 1, G. W. Kinzer.

ANCONAS.

All to F. G. Bean.

MINORCAS.

BLACK—Ck 2, hen 3, ckl 1 and 2, pul 1, 3, and 5, pen 1 and 2, J. M. Allen; hen 1 and 2, pul 2 and 4, pen 3 and 4, C. L. Blanton; hen 4, ckl 5, pen 5, R. J. N. Reid; ckl 3, F. G. Bean; ckl 4, Humphrey & Parsons. WHITE—Hen 1, Belmont Farm; ckl 1, pul 1, 2, and 3, C. W. Jerome & Co.

BLUE ANDALUSIANS.

All to Belmont Farm.

BLACK SPANISH.

Ck 1 and 2, hen 2, pul 1, E. R. Gregory; ck 3, hen 1, ckl 2, pul 2, Belmont Farm; hen 3 and 4, ckl 1 and 3, pul 3 and 4, R. E. Long.

POLISH.

W. C. BLACK—Ck 1, Belmont Farm. GOLDEN—Ck 1, hen 1, pul 1, Belmont Farm; ckl 1, pul 2, J. E. Counce. SILVER—All to Belmont Farm. WHITE—Ck 1, hen 3, pul 1, Belmont Farm; hen 1 and 2, ckl 1, pen 1, H. A. Munson. BEARDED GOLDEN—Ck 1, hen 2, pul 1, Belmont Farm; hen 1, pul 2, pen 1, H. A. Munson. BEARDED SILVER—Ck 1, hen 1, Belmont Farm. BEARDED WHITE—Ck 1, hen 1, Belmont Farm. BUFF BEARDED—Ck 1, pul 1, Belmont Farm; ck 2, hen 1 and 2, ckl 1, H. A. Munson.

HAMBURGS.

GOLDEN SPANGLED—Ck 1, hen 1, Belmont Farm. SILVER SPANGLED—Ck 1, hen 4, Belmont Farm; ck 2, hen 1 and 3, Uplands Poultry Farm; hen 2, pul 1, James Mayo. GOLDEN PENCILED—Ck 1, hen 1, pul 1, Belmont Farm; pul 2, C. D. Perkins. WHITE—Ck 1, hen 1, Belmont Farm. BLACK—Ck 1, hen 2, Belmont Farm; hen 1, James Mayo.

RED CAPS.

Hen 1 and 2, ckl 1 and 2, pul 1 and 2, R. E. Long; hen 3, Belmont Farm.

HOUDANS.

Ck 1, hen 1, Belmont Farm.

CREVE CŒURS.

Ck 1, Belmont Farm.

DORKINGS.

WHITE—All to Belmont Farm. COLORED—Ck 1, hen 1, Belmont Farm. SILVER GRAY—Hen 1, ckl 1, pul 1, H. W. Sweeney; hen 2, pul 2, Belmont Farm; ckl 2 and 3, pul 3 and 4, R. E. Long.

GAMES.

B. B. RED—Ck 1, hen 1, ckl 1, pul 3, W. H. D. Warfield; ck 2, hen 2, pul 4, Geo. Schrade; ck 3, hen 4, S. H. Bahn; ck 4, hen 3, Jas. Beall; ckl 2 and 3, pul 1 and 2, Peirce Bros.; ckl 4, pul 5, F. X. Kinzie. BROWN RED—Ck 1, hen 1, Belmont Farm; ckl 1, pul 1, Geo. Kinzie. GOLDEN DUCKWING—Ck 1, hen 1, pul 2, Belmont Farm; ckl 1, pul 1, Geo. Kinzie. SILVER DUCKWING—Ck 1, hen 1, Belmont Farm. RED PYLE—Ck 1, hen 1, Belmont Farm. WHITE—Ck 1, hen 1, ckl 1, pul 2, Belmont Farm; hen 2, pul 1, F. X. Kinzie & Bro.; BLACK—Ck 1, hen 1, ckl 1, pul 1, F. X. Kinzie & Bro.; ck 2, hen 2, C. D. Perkins. PIT—Ck 1, ckl 1, pul 1, Jesse Mann; ckl 2, 3, 4, and 5, pul 2, 3, 4, and 5, G. B. Coleman. B. B. RED MALAY—All to Belmont Farm. CORNISH INDIAN—Ck 1, F. T. Thompson; ck 2, hen 3 and 4, Jno. Turner; ck 3 and 4, pul 4, Geo. Schrade; hen 1, ckl 5, Belmont Farm; hen 2, ckl 1 and 4, pul 5, Geo. W. Kinzer; hen 5, pul 2 and 3, E. M. Mellor; ckl 2, C. D. Perkins; ckl 3, pul 1, W. H. D. Warfield. WHITE INDIAN—Ck 1, hen 3, ckl 2, pul 1, Geo. Schrade; hen 1, ckl 1, Belmont Farm; hen 2, Elmwood Farm. BLACK SUMATRA—Ck 1, hen 1, ckl 1, 2, and 3, pul 1, 2, and 3, Wood & Figgins; hen 2, ckl 4, pul 4, J. C. Mears.

GAME BANTAMS.

B. B. RED—Ck 1, hen 1 and 2, ckl 1 and 2, pul 1 and 2, B. C. Thornton; ck 2, hen 3 and 4, ckl 3 and 4, pul 3 and 4, Geo. Corson; hen 5, W. W. Hepburn. BROWN RED—Ck 1, hen 1 and 2, ckl 1, pul 1 and 3, B. C. Thornton; ck 2, hen 3, pul 2, Belmont Farm; hen 4, pul 4, Stewart Tansill. GOLDEN DUCKWING—Ck 1, Geo. Corson; ck 2, hen 1, Belmont Farm; ckl 1, pul 1, B. C. Thornton. SILVER DUCKWING—Ck 1, hen 1, ckl 1, pul 1, B. C. Thornton; hen 2 and 3, ckl 2 and 3, Geo. Corson. RED PYLE—Ck 1, hen 1 and 3, ckl 1, pul 1 and 2, B. C. Thornton; ck 2 and 3, hen 2 and 4, ckl 2 and 3, pul 3 and 4, Geo. Corson; ck 4, hen 5, J. E. Beall; pul 5, Stewart Tansill. WHITE—Ck 1, hen 2, pul 1, B. C. Thornton; ck 2, hen 1, ckl 2, pul 2, Belmont Farm. BLACK—All to Belmont Farm. BIRCHEN—Ck 1, hen 1 and 2, pul 1 and 3, B. C. Thornton; ck 2, hen 3, Belmont Farm.

BANTAMS, OTHER THAN GAME.

GOLDEN SEBRIGHT—Hen 1, pul 1, pen 1, H. A. Munson; ckl 1, pul 2, Belmont Farm. SILVER SEBRIGHT—All to H. A. Munson. R. C. BLACK—Ck 2, hen 2, Belmont Farm. BOOTED WHITE—All to Belmont Farm. BUFF COCHIN—Ck 1, hen 1, ckl 1 and 2, pul 3, J. F. Kirkpatrick; hen 2, pul 2, S. T. Curry; pul 1, W. W. Hepburn; pul 4 and 5, Geo. Corson; pen 1, J. W. Kistler. WHITE COCHIN—Hen 1, Belmont Farm. BLACK COCHIN—All to J. F. Kirkpatrick. BLACK TAILED JAPANESE—Hen 1, Belmont Farm. WHITE JAPANESE—Ck 1, hen 1, ckl 2, pul 1, Belmont Farm; hen 2, ckl 1, Mrs. E. Turner. BLACK JAPANESE—Ck 1, hen 1, Belmont Farm. LIGHT BRAHMA—All to Geo. W. Hillson.

MISCELLANEOUS.

SILKIES—Ck 1, hen 1, C. E. Boileau & Son. FRIZZLES—Ck 1, Jesse B. Riggs; hen 1 and 2, F. G. Bean. ANY OTHER VARIETY CLASS—Ck 1, ckl 2, R. C. Grinder; hen 2, ckl 4 and 5, H. W. Smith; ckl 1, L. E. Crumblin; ckl 3, L. H. Davis.

TURKEYS.

BRONZE—All to Uplands Poultry Farm. WHITE HOLLAND—All to Mary Merritt.

WATERFOWLS.

WHITE PEKIN—Drake 1, duck 1, Mary Merritt; drake 2, Fauquier Poultry Yards. WHITE MUSCOVY—All to Mary Merritt.

BOYLES' R. C. BROWN LEGHORNS...

Won the highest honors at Cleveland, Youngstown, and Erie shows in hot competition, '97 and '98. Judges, Pierce, Bridge, and Jarvis. At Meadville, Pa., won every 1st and 2d prize, all 3d and 4th but 3, score, 90 to 94. At Hamburg, N. Y., cock 1st and 2d, cockerel 1st, hen 1st, 2d, 3d, and 4th, pullet 1st and 3d, score 92 to 94½, pen 1st. Burgott, judge. Cockerel with card for sale. Big catalogue free.

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Buffinton's Buffs

Still take the lead. Hundreds of prizes won at such shows as Madison Square Garden, Buffalo, Washington, Hagerstown, Hartford, Providence, Boston, and nearly every local show in New England. We have the only flock of good Rhode Island Reds in the country. Eggs from Buff Wyandottes, Buff Plymouth Rocks, Buff Leghorns, and Rhode Island Reds, \$2 per 13; \$5 per 40. Buff Cochins, Barred P. Rocks, and White Leghorns, \$1.25 per 13; \$3 per 40. Stock for sale. For \$1 we will send recipe for Sampson's method of feeding hens for eggs. Send for circular.

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The Boston Show a Great Success.

The last Boston show, held January 17-21, 1899, was the largest event of the kind yet held in this country. Over \$7,000 was distributed in regular and cash prizes.

For the placing of the awards twenty-eight judges were employed. They came from eight different States and Canada, each an expert on the classes he passed upon and fully qualified to select the best. All awards were made, the ribbons placed upon the coops, and marked catalogues on sale within thirty hours from opening the show, fully proving the ability of the management to handle the largest display ever made, in the most satisfactory manner.

The interior of the mammoth main floor of Mechanics' Building, covering as it does a block, was beautifully arranged; the long rows of Spratts' open coops, the large display-pens and breeding-yards so tastefully placed, just where they might best attract; here and there a miniature poultry-yard, or a breeder-house, giving evidence of a masterly hand as the guiding spirit in the placing of the whole display.

The following tells in detail of the great display: Poultry in open classes 1,861; poultry in breeding-pens 855; pigeons in open classes 1,724; pigeons in display-pens 437; cats and pet stock 266; cage birds 40; dressed poultry and eggs 447; other entries 146; making a grand total of 5,596 entries.

In Light Brahmas, Oakland Farm won nineteen regular and special ribbons with a grand string of birds. Rollins Brothers about the same. Bumford of Waltham, and Charles A. Wheeler, and others won a few minor ribbons. In Dark Brahmas H. A. Mansfield, Philander Williams, Wm. McNeil, and T. H. Terry divided the honors. Thomas Perrine got third on cockerel. Buff Cochins, as usual, were very strong at this show, the most superb lot as to all Cochin qualities ever placed in a show, were the forty birds shown by Oakland Farm. They are surely the best lot in the whole world. The thirty females shown by W. C. Baylies have most perfect shape, color, and penciling. Mr. Crownshield won three ribbons in this class, Mr. Wetmore, one. All the balance of the honors going to Mr. Baylies, who won all on females. In Black Cochins, the Hon. David A. Nichols, A. E. Swasey, and Albert Lewis, divided the ribbons. Mr. Swasey had a grand display of old birds; Mr. Nichols the best young ones. In the White, Cochins that are Cochins competed for the honors; grand size and color were present. Messrs. McNeil and Williams pushed hard for supremacy over the Brooks and Wild Birds. A better lot seldom are seen.

The Black Langshans were fine. The Messrs. E. T. Gibson, Lovett, Moore, Remington, A. B. Yeaton, Brothold, and Longfellow, and the Beatty Brothers, drew cuts as to who should have a little the best of it. A few White Langshans were shown.

The Plymouth Rock classes were grand. In Barred, Wm. Ellery Bright, C. H. Latham, Mr. Yeaton, Carvery, and Gurney, divided the major portion of the prizes. Cheever Brothers won first on pullet, their only entry. This was a grand display of fine birds. While Rocks of the right shape and color filled a long row of coops, but few poor ones were seen. Many of excellent quality did not have a ribbon. B. D. Miller won first cock and hen; Fille-

brown, first cockerel; Edw. Riedel, first pullet; the others went to Messrs. Howland & Whitney, Rankin Brothers, N. A. Nourse, H. R. Hayden, Jr., and others; thirty-nine prizes going to almost as many breeders, it was no man's walk over. Buff Plymouth Rocks of wonderful quality as to shape and color to the number of fifty-four in the open class; James Forsyth's first pullet was a corker. A. C. Hawkins had a string of most superb quality. H. W. Higgins was strong in old birds. The above won the principal honors on these birds, leaving a few minor ribbons for Messrs. Frank Woodbury, Wm. J. Walsh, and C. W. Beman. Silver Wyandottes were a good display. The first pullet of Wood & Freeman, is the finest yet shown. The awards on these were so scattered time will not permit mention of all. In Goldenes many very fine ones were shown by a number of breeders. The color of the females was superb.

White Wyandottes, so fine in form and pure in plumage one could admit them as pure white, filled many coops outside the award line. Fifty-seven awards were made some twenty exhibitors. The first and seconds went to Arthur G. Duston, J. W. Andrews, C. H. Fuller, and C. F. A. Smith. In Buff Wyandottes great quality was seen. The true shape and buff color were there. First and second were divided between R. B. Robbins, King & Whiting, Frank Dutcher, C. S. Mattison, and James Forsyth. A few Javas and American Dominiques were shown. The display of Rhode Island Reds made by Samuel Cushman and Fred B. Cochran, attracted much attention. They were about the size of a Buff Rock and looked like them somewhat, only that they are red with black points.

South Carolina Brown Leghorns very good. First and seconds went to W. Theo. Whittman, Tenney & Harrington, and Wm. Ellery Bright. Rose Comb Leghorns good. All awards were divided between James Forsyth, W. A. Smith, W. W. Kulp, Geo. B. Inches, Geo. A. Knight and W. G. Fronheiser. South Carolina White Leghorns were not a large class. The honors went to some superb birds owned by Elm Poultry Yards, W. J. Blanchard, C. H. Annabel, and Chas. M. Abbott. In Rose Comb Whites, some beauties were shown by Forsyth, Smith, (of Elm Poultry Yards) Smith, (of Whitney's Point, N. Y.); Wilson and Ross. The Buffs were a grand lot. L. S. Bache, Root & Gorham, R. G. Buffinton, and Justin W. Denison, made a nice even divide of honors. All have beautiful birds.

Black Minorcas as fine as silk and up to date won the blue and red. J. B. Thomas, G. J. and W. H. Poch, John H. Starin, Howard & Bradford, Charles A. Thomas, Geo. B. Dexter, Harry B. Knox, Elm Poultry Yards, won the honors on good specimens. White Minorcas and Blue Andalusians were good classes. Charles A. Thompson and W. A. Smith, won all on White Minorcas. In Andalusians John T. Moon, Jr., Grey's Poultry Yards, A. C. Keyser, and Robert W. Lovette, won the prizes. Black Spanish, sixty birds; a good lot, all. Awards to C. A. Shaw and Albert Swasey.

Wm. McNeil showed the most superb collection of Polish of all kinds, wonders in crest and color. Mr. James E. Connor also had some good ones. Would that time and space would allow me to tell of the wonderful lot of Hamburgs individually, over one hun-

dred of them. Houdans, a good lot, so were the other French breeds. Henry Hales, Geo. B. Inches, Watson Westfall, and Wm. McNeil, came with their Dorkings, and a grand lot they were.

Standard Exhibition Games showed by Peirce Bros., the grandest lot out for years; four varieties showed by them all of very high quality. Some good birds were shown by G. H. Clark, W. H. D. Warfield. Indian Games, Kinzer, Kerby, Wolf, Bonham Poultry Yards, Warfield, Vaughn, Harrington, and McNair, all had good ones, and won their share of ribbons.

Sumatras, Erminettes, Silkies, Frizzles, Rumpless, Orpingtons and Pet Games made up the other variety classes. Ducks, geese and turkeys would make a report of their own. Hundreds of them came to Boston, of the best in the world.

The display of Bantams was very fine. All varieties were shown in good numbers.

Better Than Ever.

Business is very good for December; better than it ever has been during this month, and we are pleased to say that THE FEATHER is doing its share.

E. F. HODGSON, Dover, Mass.



KING OF THE POULTRY YARD

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American Poultry Food is made from the best selected wheat, barley, corn and oats all ground and thoroughly mixed in exactly proper proportions. American Poultry Food will unquestionably produce more pounds of flesh or a greater number of eggs in a given time and at less expense than any other food.

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BREEDING UTILITY FOWLS.

A Practical Talk on Progressive Poultry Raising, and Opportunities Offered on a Small Farm.

[Address delivered to fanciers assembled at Sanatoga Park, Pa., being members of the Pennsylvania State Poultry Association, gathered there by call from the Secretary. By THEO. F. JAGER, Lebanon, Pa.]

Time and time again we hear farmers say, "Don't breed more than one breed or variety, for if you do they will grow away from you and lose in standard points, where they ought to gain."

While it is true, that a beginner ought to start with one variety at a time, in order to make his foundation solid, yet I wish to state that as soon as he has mastered that particular kind and finds time and space still at his disposal, he ought to take up the next variety in the chain of utility fowls. The comparison alone is worth that much to him, and if he still prefers to stick to his first love, the additional variety will only serve to strengthen the ties binding him to his first choice. But as utility fowls need not necessarily be high-scoring specimens, the fancier's ideas will have more or less to give way to the market poulterer's practical sense.

Periodically we read about Tom, Dick, or Harry's all-purpose fowl, a fowl which is claimed to have all desirable requisites of all varieties with the bad habits of all left out. I say it is claimed, for in reality there is no such fowl. The personal fancy of a man runs away with him, and it is highly gratifying and of interest to Chickendom in general that such is the case, that he thinks his pets are better than any, and return him more money than any. "One likes the mother, the other prefers the daughter," is an old adage which may be cited here.

While it is true that certain Plymouth Rock and Wyandotte strains come very near to this "all-purpose standard," yet I am not afraid to say that other varieties upset their record either as egg layers or meat producers. There is no such a thing as an all-purpose fowl; there is no combination of meat and feathers of a certain variety, which lays more eggs and grows quicker the best meat, together in one fowl, than some other variety may not in part upset.

If we desire to get all that our feathered tribe is able to produce, we must resort to more than one breed. We must pick a layer and secondly a broiler breed, and, in order to give us a variance of meat, we ought to close the list with a duck. Leghorns are acknowledged good layers, but are distanced in the size of their eggs by the Minorcas, consequently we prefer Minorcas to represent the egg machines. Their eggs are the largest sized, whitest shelled of any, and demand, and get from three to eight cents per dozen more at all times.

Plymouth Rocks and Wyandottes represent the truly American breeds for meat production, and a rapid production at that, and as colored or black pinfeathers in the carcass are somewhat of a drawback with our fancy city cousins, the pure white varieties are the most desirable. Their yellow legs, bill, and skin make them tempting in the butcher shops and they are sold prior to

any colored varieties in spite of other good points that the latter may have.

White Wyandottes have a trifle the advantage over White Plymouth Rocks, as the latter have a frame somewhat more solid, which costs us more of high-priced food, such as green bone, to erect. The small, steel-like bones of the Wyandottes just seem to be proportioned and shaped in order to carry their amount of meat. In short, the White Wyandotte, and the White Wyandotte alone, is the typical broiler bird of today. As to ducks, we all know that Pekins, sometimes called the Imperial, are the acknowledged market leaders—hardy, frugal, and great food consumers; they tip the scales at thirteen pounds, when a ten-weeks-old pair is weighed.

Now regarding the duck business I wish to say a special word, as this line has advanced so rapidly during the last few years that old duck raisers shake their heads and insert ads in the papers, offering their output for sale. On my trips to Long Island, New York, and other inland duck-raising districts, a few months ago, where I visited the famous duck farms of the Speonk section, I found that the prices received for spring ducks or green ducks were not in accordance with the cash outlay and losses incident to the business; in short, I found and heard raisers tell me, "The duck business is overdone," "The demand is flooded with the output," "It's a losing game," etc. Mr. T—a man who raised from 10 to 14,000 annually, claimed, for instance, he did not have enough cash left to do repairs to his houses, as they ought to be done. He said he was going to sell out, if ever a party having the duck fever and some cash should come over his way. And there were others!

Now, gentlemen, if such grayhaired pioneers are seriously contemplating changing their mode of occupation, there must be something radically wrong somewhere. Where is it? Is it true that the demand is lacking, or is it true that other channels supply our former duck-devouring city friends? Is it true that we can not sell or afford to raise a duckling for twelve cents per pound and make a profit? The majority of the pioneers say they can not raise a duckling to be sold for fifty cents more or less, and keep body and soul together.

Here is something else that is claimed: A duckling consumes feed—one-half cornmeal, the balance middlings and bran and ten per cent beef scraps—to the amount of five cents a pound; that means a five-pound duckling costs in feed twenty-five cents. Interest on invested capital, keeping, and wintering of breeding stock and labor costs another three cents a pound, making fifteen cents for the bird and a grand total of forty cents for a duck weighing five pounds and ready to be killed. Add to this five cents for picking it—I am not counting the feathers, which bring forty to fifty cents a pound, if properly cleaned—you will realize seven cents at the rate of twelve cents per pound paid, eight cents being deducted by the commission merchant for his trouble and transportation. Now there, if Mr. W—raised 23,000 birds, for instance, he ought to be able to show a clear profit of seven times 23,000 or \$1,610. This is logic and nothing can knock it out! Why is it now, that this profit, a small one, considered only at midsummer prices, is not apparent? Answer. Because the cost of their breeding stock

is out of reason to the number of fertile eggs laid; in short, the quality of the breeding stock is below the standard of what breeders ought to be. How many eggs a duck will lay is an open question. Some of the most prominent breeders claim as high as 140 to 165 eggs from each duck in a season; and they also claim that with fair success one should raise one hundred young from each breeding duck. Our egg record is not as high, and we know of none that is where there is a large flock. We believe, however, that the average total egg yield will prove to be nearer one hundred eggs per year than the higher numbers mentioned. As to the number of young raised from the eggs laid by each duck, we dislike to hazard an estimate. We may say, however, that we would not place it higher than twenty-five on an average from large flocks. These figures may occasionally be exceeded by small flocks, and, perhaps, in an exceptionally favorable season, by a large flock, but we believe it is as liberal an estimate as can safely be figured at the present stage of duck culture.

Here is a short story of the rise and fall of the Pekin Duck and the explanation of the trouble. Years ago, when incubators were considered fakes, hens were used to do the incubating and if the average of untested eggs—eleven—given the hen turned out to be less than nine ducklings, it was called rank hatching. Nine ducklings out of eleven eggs—not tested—means almost eighty-two per cent fertility. Do our ducks, generally speaking, hatch the same to-day? I believe I voice the sentiments of the majority, if I set the hatching average percentage at fifty per cent—a falling off of fully twenty-two per cent. Here, brother farmers, lies the dog buried. These twenty-two per cent of ducklings not hatched, dead before they were born, constitutes the gulf in which the biggest pile of above-mentioned profit of \$1,610 went. This is the reason that the duck market is sluggish, apparently, and that old grayhaired men think of shifting their occupation. Why they don't go to work and remedy the source of the sluggishness is not visible to me. Very likely they don't know it. If we keep our breeders, as breeders ought to be kept on a proper breeders' diet, or a large breeding hunting field, eggs will again be strongly fertilized and good old times and plenty of good old money will come again to the honest old duck men.

Here is what Pollard says regarding the duck business in the *Reliable Poultry Journal*: "When all these points have been carefully considered and definitely decided, begin the business with either good breeding stock or eggs from such. Which plan you adopt must be determined largely by the condition of your purse and the season of the year. If planning to begin in summer or fall, by all means buy breeding stock. This does not mean to send a postal card to every breeder you have ever heard of, asking prices on certain numbers and buying of whoever quotes the lowest figures, regardless of age, condition, or quality. If you begin in this way you will probably get stuck, and we fear you will deserve your troubles. Try to remember that reputable dealers of established reputation do not have to sell their stock at auction, and that they will not bid cut prices to get trade. The stock once secured, care for it intelligently and well. Having the source of the egg supply in your own hands and

ROUP cured with little trouble

AND AT SMALL EXPENSE.

Read what prominent breeders say.

Wm. Beswick, of Garfield, N. J., sends us the following:—"I find that **Mexican Mustang Liniment** is a positive and quick cure for Roup. I had a Buff Leghorn pullet that had it so bad that both eyes were swelled shut and it cured her in four days so that she is running around now, and to look at her you would think she never was sick. I have used it on others and it cured them. It is the best and quickest remedy I ever used for Roup."

Paul Wendt, of Akron, Ia., writes us as follows:—"I used your **Mexican Mustang Liniment** on two severe cases of Roup, and also frosted comb, and it has given the best satisfaction."

W. B. Williams, of Stella, Neb., writes:—"Not long since I had a hen sick with the Roup. I caught her, plucked a feather from her wing and swabbed her throat well with **Mexican Mustang Liniment** and it cured her and I have not been bothered since. Two friends had some chickens that had the Roup very bad and had tried several remedies but they did no good. I recommended **Mexican Mustang Liniment** to them and afterwards they both told me that the liniment cured their birds. I expect to keep your liniment on hand as long as I am in the chicken business."

Mr. J. F. Crangle, Sup't of the widely known Fishers Island Farm, N. Y., has this to say:—"We can recommend **Mexican Mustang Liniment** to anyone who is in the poultry business as something which they ought to have on hand at all times. It will do what you claim for it, and in some instances will do more."

W. E. Jolly of Clarkston, Ga., says:—"I have had several fine fowls sick with Roup for which I used **Mexican Mustang Liniment** and it effected a speedy cure—I did not lose a bird."

Mrs. E. D. Bobbitt, of Merritt, Ill., sends us the following letter:—"I wish to tell you that I have used **Mexican Mustang Liniment** during the last Winter with good results. I had quite a number of my Barred Plymouth Rocks attacked with that dreaded disease, Roup, and I doctored them with your liniment and did not lose one of them. With it I also cured Bumblefoot on my first prize cock. **Mexican Mustang Liniment** does the work thoroughly and quickly when used for poultry diseases, and cannot be given too high praise. I think it is all you claim it to be, and I know that it is to the interest of every poultry raiser to keep this valuable remedy close to his poultry yard at all times."

Write for Booklet, "Poultry Pointers," mailed FREE. Address **Lyon Manufacturing Co.,**

Mexican Mustang Liniment is sold at 25c., 50c. and \$1 per bottle.

41, 43 & 45 South Fifth St., BROOKLYN, N. Y.

under your own control, you are in a position to know just what you are working on. Nothing can improve on this method.

"But if you are beginning late in the winter, or in the spring, it will be cheaper to buy eggs. Get the best eggs obtainable from reliable breeders, paying a fair price for guaranteed goods. Hatch from these the breeding stock for another year. It is doubtful if any one could pay regular prices, from \$8 to \$10 per hundred, as asked by leading breeders for eggs from suitable stock, and make any profit hatching for market. To form a nucleus of future flocks, this is oftentimes the cheapest and simplest way. The principal fact which militates against it is that shipping eggs is a very uncertain business, and the hatch depends a good deal upon the sort of handling the eggs receive en route. It is comparatively seldom that shipped eggs hatch so well as when hatched at home. There are many satisfactory hatches, however, and if persons buying eggs will take the facts into consideration and accept the result of the chances, there is no reason why a beginning with good stock should not be made in this way. The breeder who ships fresh eggs, well fertilized and carefully packed, has done his part. The rest lies with fate and the expressman, generally the latter."

The enormous profits have been an eyeblind that have been realized by such men as Rankin, Wilcox, Weber Bros., etc., to the to-be-obeyed laws of Nature in the breeding stock. The almighty dollar and the hasty rush to increase the output of ducklings from season to season have led some people to forget to feed for parental vigor and stamina, and to-day these people have to pay for the music. Where we ought to get fifty ducklings per capita of the breeders we now get only twenty-five. That is the result of disobeying Nature's laws and fattening old stock during the laying season. Let us wake up, gentlemen, and remedy this before we slide further down the valley of "not-paying business concerns."

Mr. Pollard, one of our greatest, if not the greatest duck genius living, who made his phenomenal raising on two acres of ground, has recognized the fact that hereafter it takes two kinds of farms, to make it pay for all concerned. First, the production of breeding stock

not related raised on a proper breeders' ration, that eggs may be strongly fertile and prove in the hands of others the germ to be fattened as heretofore for culinary purposes; second, the market farms who will draw yearly drakes or ducks and drakes from above-mentioned places in order to feed the home-blood new and invigorating blood food.

This is the only solution out of the difficulty and whenever in any time to come you should find that duck eggs don't hatch well or ducklings don't grow quick enough, don't get discouraged, but try once eggs from a flock that has been treated in compliance with Nature's laws.

The Lebanon Poultry Yards will sell eggs at \$1.50 per setting from their Pecunia Pekin Ducks. If two settings are taken at one time they will be \$2 for the twenty-two, and if what I have said now is not apparent to you after they are hatched and grown you may call again and get your money back, that is all. We guarantee satisfaction in all deals or the money involved will be returned you. That is what all honest people ought to do, and what more are honest people able to do? I close with Pollard's words in the *Reliable Poultry Journal*, and again call your attention to the fact, that you can not afford to buy the types of years past. This is a progressive age and Pecunia Pekins are some of the milestones on the road to success. "We have for several years been selecting and breeding for a different type from the old-time, long-necked, coarse-headed, and heavy-boned Pekin. That type of duck, with its shallow keel and lack of breast meat, yet with its full amount of waste, has been the principal impediment in the way of making the duck as well known and liked, and as a food product as much sought for as are chickens and turkeys. The percentage of waste has been so large, and the proportionate cost so much increased over the flesh of the chicken and turkey, that it has been practically impossible to overcome the difference. So the duck has remained more the food of the clubman and the epicure than the staple dish of the family, which it must become or suffer in sales from over-production and a limited demand. To be sure, each season adds to the sales, but it also adds to the number of producers. To overcome this failure in waste and consequent

disinclination of the family purveyor to buy, we have been steadily working in the direction of a type which should overcome these objections in a marked degree. We believe we have in our fine-boned, small-headed, and deep-keeled type approximated, at least, the true market duck and the ideal type of to-day and the future. They unite full, deep breasts and meaty thighs with less bone and a smaller shrinkage in entrails, neck, and head. When it is considered that all eastern ducks are marketed with heads on and undrawn, the important saving in this respect is readily seen and is quickly appreciated by the consumer. For these reasons we advise that for breeding stock good, long-bodied, deep-keeled ducks be procured and mated to drakes with as deep keels and fine heads as can be selected. Whether or not of our strain, get this type and let the long-range fellows alone. They are a combination of appetite and waste, with which, in a commercial way, you can not afford to meddle. They are the type of yesterday and the past. Begin with that of to-day and the future."

BEST OFFER TAKES THEM.

Two 600-egg Monarch Incubators in fine condition. Do not need them. A fine chance for someone.

Mt. Vernon Poultry Farm, Reading, Mass.



S. C. B. Leghorns, Rose C. B. Leghorns, Golden Wyandottes.

Winners of 1st prizes at Hanover, Pa., 1898, Carlisle, Pa., 1898, Hagerstown, Md., 1898. Send for price list.

GUSTAVUS CULP, Virginia Mills, Adams Co., Pa.

Barred P. Rocks Exclusively.

America's Best Strain.

Won at the great Meadville, Pa. show—1st pullet 93, 2d 92½, 3d 92¼; 1st cock 91; 1st pen. Eggs from this strain of prize winners, \$1.50 per setting of 15 eggs. Also cockerels for sale.

J. BYRON HUMES, Venango, Pa.

WHITE WYANDOTTES

They are the all-purpose fowl of the 19th century. Eggs, \$2 per setting; 3 settings \$5. Incubator eggs, \$8 per 100. Also Pekin Duck eggs, \$1 per setting; \$6 per 100. Orders booked now and filled when wanted.

JOHN H. SWIFT, Natick, Mass.

THE BUSINESS WORLD.

As Viewed From the Columns of The Feather.

WATAUGA POULTRY YARDS.

One of our many new advertisers this month is Lee F. Miller, proprietor of the Watauga Poultry Yards, Elizabethton, Tenn. Mr. Lee is an enthusiast with poultry and is making a great success of the business. He is a prominent lawyer in his town, and enjoys a wide circle of acquaintances. His farm is located near Elizabethton, and everything on his place is first class in every particular. His houses are built on modern ideas, and the details of same are arranged for convenience and comfort of the birds.

Mr. Lee is a breeder of Cornish and White Indian Games, Barred and White Plymouth Rocks, and Golden Sebright Bantams. Of these varieties he devotes the most attention to his Cornish Indian Games and White Plymouth Rocks; it seems as if these two varieties come the nearest to his way of thinking, and as a consequence, he is leaving no stone unturned to get only the best. Mr. Miller has exhibited his birds in numerous shows this season, and has seldom failed to catch the choice places. His record is the best, and his stock is going rapidly to the front. At the recent Washington show, his two pens were delayed in arriving in time for judging, but their quality was of such merit that the judge (Lambert) felt obliged to award him second and third on pens.

At the recent Bristol (Tenn.) show, January 24-27, 1899, he scored a success. Over 800 birds were shown here, and his birds won under D. M. Owens, judge, the following: White Plymouth Rocks, 1st cock, 93 (10¼); 2d cock, 93 (9); 1st hen, 96; 2d hen, 96; 3d hen, 95½; 1st pullet, 96; 2d pullet, 95½; 1st cockerel, 94½; 1st pen, 190¾. On Cornish Indian Games he won: 1st and 2d cock; 1st, 2d, and 3d hen (96); 1st pullet (95½) and 1st pen. He also won everything on White Indians and a clean sweep on Golden Sebright Bantams. Space is too limited to go further into the details of his winnings, his catalogue explains everything in this line as well as his matings. We publish below a list of his purchases of breeding stock which will give our readers an idea of some of the birds he has in his yards. They are as follows:

LOCKPORT, N. Y., June 1, 1898.

This is to certify that we have sold and delivered to Lee F. Miller, Elizabethton, Tenn., our best this year's breeding-pen of White Indians; also the two extra fine Cornish Indian cocks heading our best two pens this last year, together with ten of our best breeding hens from said pens.

C. A. SHARP & Co.

AMITY, Mo., July 8, 1898.

This is to certify that I have sold to Lee F. Miller, Elizabethton, Tenn., the following Cornish Indian birds: Hen "Dutchess," sired by "Majestic," 94½, won second at Mid-Continental, 1896; he was by "Champion," 94½, winner of first and gold medal at Missouri State Poultry Show, held in Macon; he by imported "Champion," 94¼ winner of first

above. Her dam was first hen at Waco, Texas, scoring 94½, she was from a very fine imported pullet-breeding cock, purchased from William Brent, in England.

Hen "British Queen," sired by "Corker," scored 95½, and won first prizes for two years at New York, one year at Boston, two years at Mid-Continental, one year at St. Louis, and three years at Atchison, Kan. Dam was the imported hen that won first for two years at the Missouri State Poultry show.

Cock "Victor," sired by "Corker," 95½, as above; dam was "Marcia," score 96. This cock I have bred from, and he is a fine pullet breeder.

ADAM THOMPSON.

FRAYNE, CORNWALL.

ENGLAND, Aug. 17, '98.

This is to certify that I have sold and sent to Lee F. Miller, proprietor of the Watauga Poultry Yards, Elizabethton, Tenn., one pair of Cornish Indian Games, being the same pair which won first prize and silver cup at the Crystal Palace Show, held in England, November, 1897. In addition to these prizes, this pair of birds have won the following prizes: 1 and cup Birmingham, 1 and cup Plymouth, 1 and cup Helston, 1 and cup Iverton, 1 and cup Newton, 1 and cup Haslingden, 1 and cup St. Austell, 1 and cup Bridgewater, 1 and cup Okehampton, 1 and cup Ripley, and Champion cup (value 10 pounds and 10 shillings) for best pen birds in show, also two other champion prizes at Oldhampton and Swansea and many other prizes.

JAS. FRAYNE.

LANCASTER, MASS.,

Oct. 28, 1898.

This is to certify that I have sold and delivered to Lee F. Miller, proprietor of the Watauga Poultry Yards, Elizabethton, Tenn., the 2 White Plymouth Rock hens, "Purity" and "Snowflake," winners of 1 and 2 respectively at

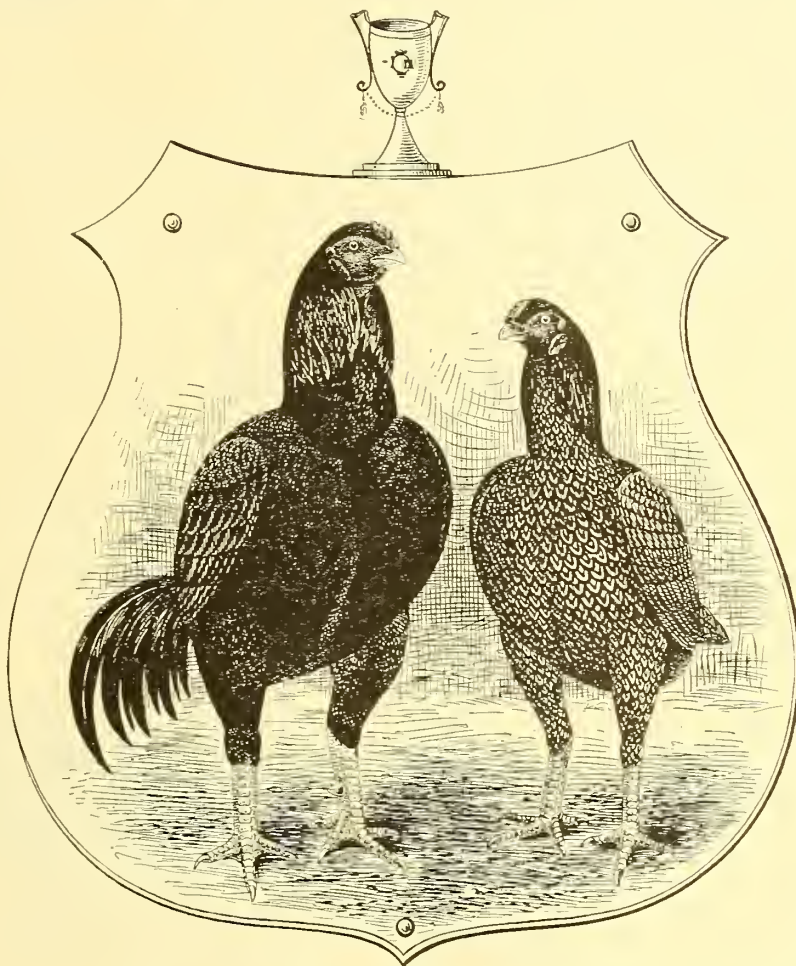
the shows held at Madison Square Garden, one in 1895, and one in 1896.

A. C. HAWKINS.

Mr. Miller is president of the Virginia and Tennessee Poultry Association, and a member of the American White Plymouth Rock Club. See his ad in this number and write him for his illustrated catalogue and prices.

A GREAT BUSINESS.

One of the best-known breeders of fine poultry is E. H. Knapp, of the firm of Knapp Bros., Box 600, Fabius, N. Y., breeders of Single Comb White Leghorns and White Wyandottes. For many years Mr. Knapp has been in the



TAKEN FROM LIFE.

"John Bull" and "Queen Vic," winners of 1st and cup at Crystal Palace, London, in 1897. Imported, owned and bred from by Lee F. Miller, Proprietor Watauga Poultry Yards, Elizabethton, Tenn.

at Missouri State Show, held in Warrensburg, Mo., and he by Frayne's old "Champion" cock, for three or four years winner at the Crystal Palace Show, London, Eng. "Dutchess" won second prize as pullet at Mid-Continental, New York, and Washington, D. C., 1896-7; full sister to "Majesty," winner of first at New York and Washington, D. C.

Hen "Bessie II," sired by "Valuator" (scored 95½ by Emry after the show), winning first at Kansas City: he by "Vindicator," 95, winner of first at Mid-Continental as cockerel, and second at New York, Boston, and Mid-Continental as cock; he by "Champion" 94½, as



E. H. KNAPP.

poultry business, and a visit to his elegant home will convince any one that he has been extremely successful with his work. His farm is one of the best in Onondaga County, and his income from same we would think is not surpassed by any of his neighbors. The whole scene is one of active prosperity and perfect harmony.

It is not necessary to go into a detailed description of the successive victories of the Knapp birds in the show-room. Their stories are known everywhere, they are constant winners in the hands of those who own them. During our visit to Mr. Knapp's place last fall we saw them in their own domain, and a pretty sight it was to see the snow-white plumages and brilliant red combs on the green lawns that are so abundant on his places. The houses were nicely built, and everything seemed snug and tight, with every convenience for attending to the work. Nothing is neglected on the premises and all work is done with a system. Health is one of the chief thoughts that Mr. Knapp has always in view for his fowls; indeed, he considers it to be the corner-stone of his success. He never overcrowds his birds, always keeps things clean and sweet, and his breeding stock is always active, vigorous, and healthy.

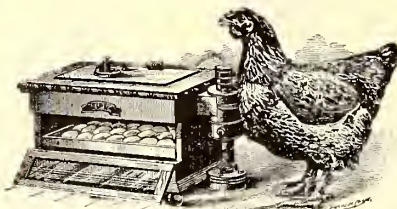
Besides the large trade which Mr. Knapp has in his White Leghorns and White Wyandottes, he also enjoys a profitable business in supplying strictly fresh eggs for market. His trade in this is enormous and his average shipment of eggs to New York markets is one hundred cases per week. These eggs he gathers in his immediate vicinity, and they are stamped, sorted, and shipped in the most expert manner. Last summer he had as many as 17,000 dozens of eggs in cold storage for fall shipments. One will see by this that he is a most active worker, and is on the go all the time. His entire business is looked after personally; he is not content unless he is in the midst of the "hustle."

Those of our readers who want White Leghorns or White Wyandottes, or eggs for hatching from these two varieties, should write them, as per their ad, Knapp Bros., Box 600, Fabius, N. Y., for their complete list of prices.

"THE WOODEN HEN."

Of course a wooden egg will not hatch out a chick, but a wooden hen will hatch chickens from tested fertile eggs. The "Noah's Ark" hens that the children play with will not do this trick, but the "Wooden Hen" invented by George H. Stahl will double discount the largest "biddy" in turning out a brood of

chicks; and when hatched an "Auntie" is provided for the fuzzy little fellows that will bring them up with care and kindness. One of the most interesting novelties yet put on the market—and a novelty of decidedly practical value—is Mr. Stahl's small-sized hot-water incubator, modeled after the famous Excelsior and called the "Wooden Hen." It takes up no more room than a good-sized hen, and it holds 50 eggs. It is equipped with an automatic regulator which is positive in its control of temperature, and it is in all respects a complete incubator. Such miniature affairs are apt to be considered toys, but while the "Wooden Hen" will afford all the amusement of a toy at comparatively small cost it is yet a practical and valuable machine in any farm or city home where chickens can be raised. There are thousands of women and boys who would like to experiment with artificial incubation, but the prices of the regular sizes of standard make deter them. To such the "Wooden Hen" comes to fill a long-felt want. Reliable in its construction, positive in the action of its regulator, and low in price, it is exactly the machine with which at small cost to learn the art of incubator-working. If the small boy—and girl, too—does not clamor for a "Wooden Hen" we miss our guess. The cost of this machine



THE WOODEN HEN.

and the "Auntie" brooder could not be more profitably expended on the boy or girl who is anxious to learn how to hatch chickens by steam. On application Mr. Geo. H. Stahl, Quincy, Ill., will send you an illustrated descriptive catalogue of "the biggest little thing on earth." Mention *The Feather*.

HOW TO MAKE EGGS.

One of the best egg-foods on the market is that of Smith & Romaine's, known as Boiled Beef and Bone. It differs from other preparations and has the highest endorsement of all who have ever used it. It is rich in albumen, nitrogen, lime, and phosphoric acid, the essence of an egg—the albumen, the yolk, and the shell. Boiled Beef and Bone is made from cattle and sheep heads, lights, and livers, slaughtered on the premises. It is cooked, dried, crushed, ground, mixed, and bagged within twelve hours from time of killing. We do not hesitate in saying that Smith & Romaine's Boiled Beef and Bone is one of the best egg producers on the market. It is warranted absolutely pure and contains nothing but fresh meat and sheep heads boiled, dried, and ground into powder. It only requires one pound of Boiled Beef and Bone, mixed in the soft food daily, for thirty hens. A splendid recipe is given for securing the best egg results as follows: 1 part Boiled Beef and Bone; 2 parts ground oats or wheat; 2 parts common cornmeal; 2 parts bran or shorts; 1 part middlings. Mix above thoroughly in feed bin, in dry state. Use by simply adding hot water, and feed crumbly, never dry or sloppy. The



"IT GOES WITH EGGS."

best of recommendations are given Boiled Beef and Bone by all who have used it, and we can fully recommend it to our readers. Write them at 109 Murray St., New York City, and tell them you read this in *THE FEATHER*, and request them to send you free a copy of their booklet "How to Make Hens Lay."

A GREAT CHANCE.

Elsewhere in this number is printed the special advertisement of George C. Bucknam, Melrose Highlands, Mass., in which he offers his entire stock of "Full Feathered" Dark Brahmas, for \$400. Mr. Bucknam has had a severe attack of the grippe, which has left him in a very bad state of health. His doctor says it will be months before he will be himself again. Mr. Bucknam is now sixty-four years of age, and he wishes to retire from the business. This is an opportunity for some one who wishes to start breeding Dark Brahmas, or for those who desire to add to yards, a better chance has not been offered in a long time. See his two ads in this number and write him, he will be pleased to correspond with you.

THE "CROWN PRINCE" STRAIN WINS.

F. G. Powers, Sterling, Mass., whose ad is in this issue of *THE FEATHER*, scored quite a success on his White Leghorns at the late Clinton (Mass.) show. He made ten entries and won five firsts and two seconds. His birds, under the veteran judge, Henry S. Ball, scored as follows: Cock 92½; hen 93½; hen 93½; pullet 91; pullet 93; pullet 92½; pullet 94; cockerel 91½; cockerel 92½. His pen had a score of 185½ points. These are excellent scores and Mr. Powers should justly feel proud of them. Mr. Henry S. Ball, the judge, writes us under recent date:

"I chanced to visit the poultry-yards of Mr. F. G. Powers, of Sterling, Mass., a few days ago, and found about 200 fine Single Comb White Leghorns. Mr. Powers has spared no pains to make his flock one of the best, and it is composed of the best blood to be found anywhere. Those desiring the same will be fairly dealt with."

This is a splendid testimonial and coming from so eminent an authority we feel it our duty that our readers should know of the fine birds which Mr. Powers is offering them. See his ad in this issue and write for prices and particulars. Be sure and tell him you read this in *THE FEATHER*.

A WINNER.

We show in illustration Geo. M. Leffel's first-prize Barred Plymouth Rock cock, at the Springfield Fancier's Association, held at Springfield, Ohio, December 27-30, 1898. F. J. Marshall was the judge who awarded this place to Mr. Leffel's bird. He also won at the above show as follows: All prizes offered on Barred Plymouth Rocks; cocks, 92; cockerels, 94, 94, 93½, 93, 92½, 92; hens, 94½, 94, 93½, 92½, 92½, 92; pullets, 94½, 94½, 94, 94, 94, 93½, 93, 93, 92; breeding-pens, 1st 188½, 2d 187½, 3d 186½. Read his ad in this issue and write him for his catalogue. His address is 363 So. Fon. Ave., Springfield, Ohio.

THE "OLD HOMESTEAD."

The Old Homestead Brooder is manufactured by L. Brown, Sturbridge, Mass. If you will notice the ad in this issue you will see what Mr. Brown claims for his machines. They are spoken of very highly by several who have used them, and it will, perhaps, be to your interest to write him for free circulars, explaining in detail the working and construction of his brooder.

MILES' ROCKS.

Dr. E. L. Miles, Sag Harbor, N. Y., is one of the leading breeders of Barred Plymouth Rocks. For more than fifteen years his birds have been in the battles of the show-room, and have many laurels for their owners. The doctor does not exhibit, himself, he breeds the stock, and leaves the winning for his customers to do. His birds are constantly to be seen in all shows from the Atlantic to the Pacific, and those who have had them appreciate their value as first-class show and breeding birds. This is the only variety he breeds, and it is sufficient when we understand the amount of success he has had with them. He will quote you prices for just the birds you may want. See his ad and drop him a line.



WHITE WYANDOTTE COCKEREL.
Bred by A. J. Bargahiser, Rockford, Ohio.

AN IMMENSE BUSINESS.

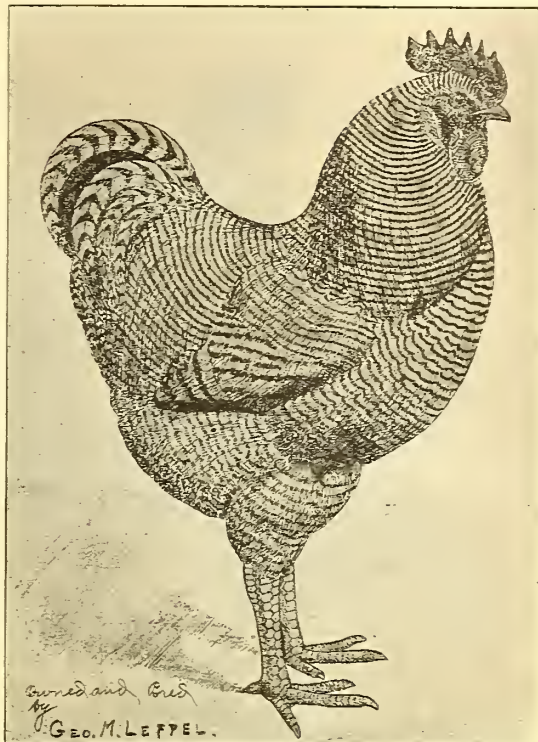
The wonderful growth and increase in poultry raising has created and developed an immense business in poultry supplies, and it is now an assured fact—if poultrymen wish to achieve the best paying results from their flocks, these supplies are indispensable. Many breeders of poultry in this section have been obliged in the past to forego, or deny themselves the certain advantages to be derived from their use, but now the Griffith & Turner Co., whose advertisement you will find in another column, are headquarters for everything needed in a practical poultry-yard and will furnish any of our readers and patrons, with these requisites at such low prices as to place them within the easy reach of every one. We know Griffith & Turner Co. to be a thoroughly progressive and reliable company, carrying constantly in stock Beef Scraps, Meat Meal, Cracked Bone, and Ground Charcoal, carefully prepared under their personal supervision, thus insuring goods of high merit and quality. They are also southern agents for Mann's Granite Grit, Dandy Green Bone Cutters, and Prairie State Incubators and Brooders. You will also find at their store, 205-213 N. Paca St., Baltimore, Md., Crushed Oyster Shells in lots from 100 lbs. to a carload. Being located in Baltimore, at the head of the Chesapeake Bay, the home of the oyster, they are, by virtue of the presence of these advantages, better equipped to supply Crushed Shells, than any other company in the country. In addition to the foregoing, they breed Barred Plymouth Rocks, Hawkins' strain, and Pekin Ducks, both Pollard's and Newman's strains. You can send them your orders, feeling confident of fair and liberal treatment.

A GOOD BIRD.

A. J. Bargahiser, Rockford, Ohio, is a breeder of White Wyandottes, White Plymouth Rocks, Barred Plymouth Rocks, and Houdans. His ad is always to be found in these columns. We show a fine cut of a White Wyandotte cockerel, which Mr. Bargahiser has bred, and which we also think he should justly feel proud of. This is a great bird and shows a pretty outline. He is a typical bird, and the reader can judge for himself of his other good points. Next month we will show portraits of more of Mr. Bargahiser's birds. See his ad and write him for prices, which, by-the-way, he is cutting in half.

A FINE COLLECTION.

The Pleasant View Stock Farm, at Lincoln, Ill., is owned by Charles J. Stuck-



FIRST-PRIZE BARRED PLYMOUTH ROCK COCK.
At Springfield Show, Owned by Geo. M. Leffel.

ey. This farm has many fine specimens of fine poultry, cattle, sheep, and swine. To be exact, Mr. Stuckey breeds Barred, White, and Buff Plymouth Rocks, Buff Leghorns, B. B. Red Game Bantams, White Holland Turkeys, South-down Sheep, and Duroc-Jersey Hogs. This is a most excellent list of fine stock, and it would seem that most any one could be pleased with his selection. His birds have a fine reputation, and one is assured of good, honest treatment at his hands. Mr. Stuckey has some excellent breeding stock of all of his varieties, and will be pleased to book orders for eggs from the same. His very pretty little catalogue will be mailed gratis to all readers of THE FEATHER. See his ad and write him.

RECORD HOMERS.

F. E. Morganthaler, prop. of Royal Red Seal Lofts, Cleveland, O., writes to renew his advertising contract. Mr. Morganthaler is an importer, breeder, and flyer of the speediest strains of Homing Pigeons. Send for free catalogue. His ad is in our classified columns.

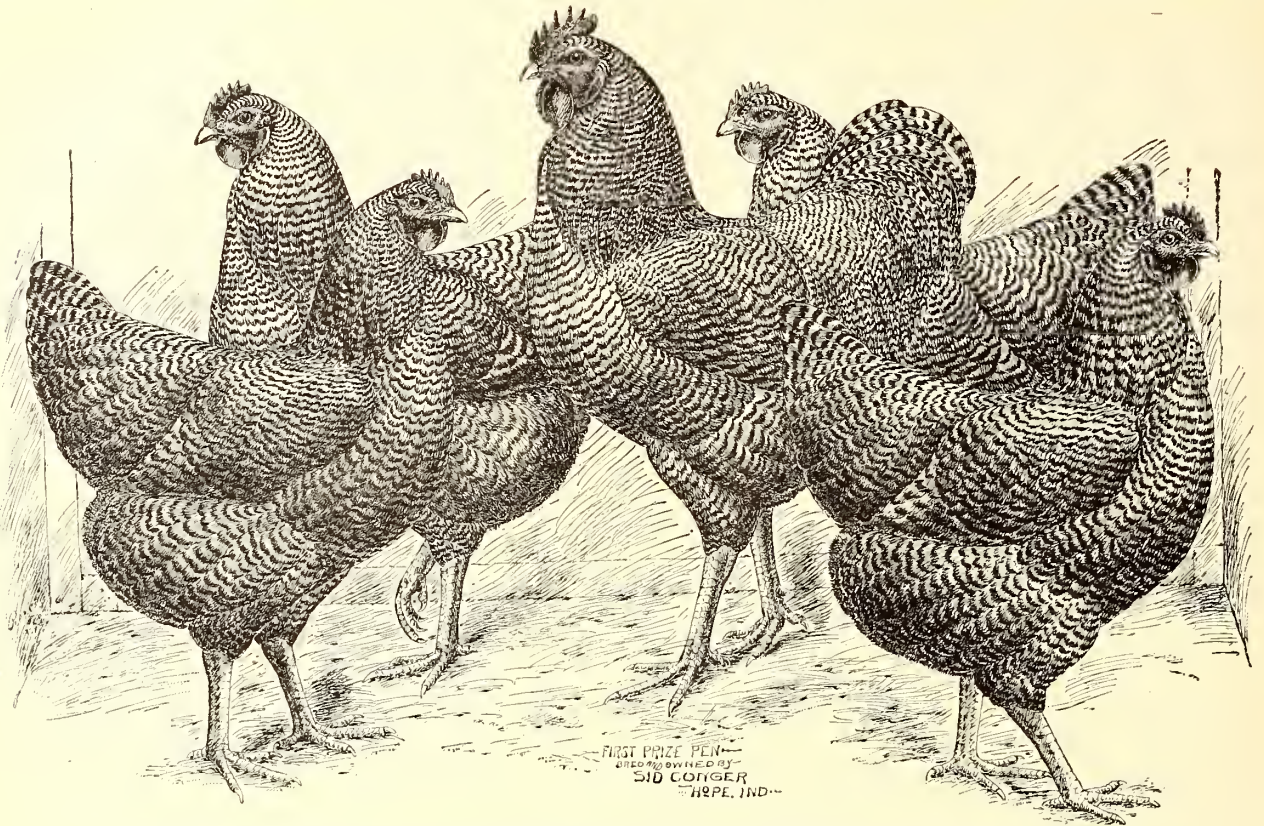
A TESTIMONIAL.

RACEVILLE, N. Y., January 12, 1898.
G. E. CONKEY & Co., Cleveland, Ohio.
GENTS: Sometime last summer I sent you for a 50-cent package of your "Conkey's Roup Cure," as a trial, but I did not have a chance to test it till a few weeks ago when a neighbor had several chicks come down with a cold and commenced to run at the nose. I got four of them and cooped them in a small coop by themselves and gave them your treatment according to directions, and in less than a week all but one were well and the other was well in less than ten days from the time I commenced giving your "Conkey's Roup Cure." I have not had a chance to give it a trial on a genuine case of roup, but I do not hesitate to say that it is a great medicine for poultrymen to have on hand, for these chicks would surely have had roup in a few weeks if I had not treated them. I wish you success, and am.

Respectfully,
GEO. H. NORTHUP.

RAISING POULTRY.

Raising poultry for profit or pleasure requires the knowledge that comes from



FIRST PRIZE PEN OF BARRED PLYMOUTH ROCKS, BRED AND OWNED BY SID. CONGER, HOPE, IND.

practical experience to be a success. Every one can learn the fullest details about this interesting subject by sending fifteen cents to C. C. Shoemaker, Freeport, Ill., for his "Book on Poultry" and 1899 almanac, 160 pages, 100 illustrations, all about fowls, incubators, brooders, poultry-houses, etc. The reliable, authoritative work of an expert that all should possess.

CONGER'S BREEDING-PEN.

We show an illustration of Sid. Conger's prize breeding-pen of Barred Plymouth Rocks at Indianapolis, Ind., Springfield, Ills., St. Louis, Mo., and five other big shows. This pen was bred from single matings, and all before it were winners at the World's Fair, and the big shows. Mr. Conger has exhibited at ten shows this season, including three State shows, and won nearly all the first prizes at all of them on his Barred Plymouth Rocks, White Plymouth Rocks, Buff and Partridge Cochins, Black Langshans, and Light Brahmas, getting first prize on breeding-pens of Barred Plymouth Rocks at every show. He has thousands of fine chicks to sell, and prize winners galore, and says he does not want to show any more for a year if he can sell a lot of winners. See his ad and write him.

CLOVER AND BROODERS.

The Jordan Milling Co., Jordan, N. Y., advertise elsewhere in this number their Clover Meal for poultry. This is the very best quality of clover hay, ground fine and is one of the best things ever used in the poultry-yard. It is very healthful and invigorating, increasing the production of winter eggs, and it is of great value to feed young chicks. The Company offers a reward of \$25.00 for any package sent out by them containing any adulteration whatever.

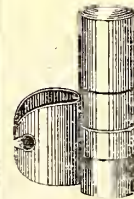
They are also manufacturers of the celebrated \$5.00 Prize Brooder, for

which they claim many points of superiority, first of which is that it is built down to the ground thereby enabling one to keep up the desired heat with much less oil. Second, the dome being placed at the back the lamp is accessible from the rear without being obliged to reach under, as in some of the \$5 brooders. The lamp can be filled and trimmed with very little trouble. The lamp-box is protected by a double wall as the sides are built down to the ground, so that it shuts out all draught and guards the lamp against changes of the wind.

The prize brooder needs no extra shelter as it is a complete brooder-house in itself, and will stand the storms even of the northern climate when the snow is from one to five feet deep and where the thermometer reaches 30 degrees below zero. The heat is supplied by a fire-proof tin lamp under the brooder, and the heat from the lamp rises into a large tin dome in top of hover. There is no hot-water tank to rust out. The lamp is separated from the brooder-chamber and no lamp fumes can reach the chickens or the air they breathe. The ventilation of the brooder-chamber is so adjusted that the chicks have pure, fresh air at all times.

The National Message Holder... (PATENTED) FOR HOMING PIGEONS,

Is the best and only thing invented that will carry a message safely.



It does not come off; does not impede the flight of the bird; can be worn over and over again; is water-tight, and weighs only ten grains; can be fastened and unfastened in a second; saves money, time, and worry; can be used in races, and saves telegrams from liberator, who sends message in Holder; is endorsed by the U. S. Government, and all prominent flyers of pigeons; is a marvel of perfection, and just the thing needed by all breeders and flyers of Homing Pigeons in races, business, and messenger work. Price of Single Holders, 15 cents each prepaid. In lots of ten or more, 12½ cents each prepaid. National Messenger Pigeon Service Blanks, in books of 50 blanks, 25 cents each; in books of 100 blanks, 35 cents each. The blanks are made especially for these Holders. All orders and remittances should be made payable to

GEORGE E. HOWARD & CO.,
SOLE AGENTS,

504 11th Street N. W., Washington, D. C.

Maple Grove Poultry Farm

L. O. BROMLEY, Prop.,
Forestville, N. Y.



Single Comb Brown Leghorns.

I exhibited this season in N. J., Pa., and Ohio, 21 birds and won nine 1sts, five 2ds, four 3ds, one 4th, and one 5th; seven out of 21 scored 94-95. Eggs, \$1.50 per 15; \$2.50 per 30. Catalogue.



First Prize at Washington, 1899.

...EASTERN SHORE POULTRY YARDS...

S. C. BROWN AND WHITE LEGHORNS ONLY.

At The Great Washington show in 1899 our S. C. White Leghorns won 1st on cock and pen, 3d on cockerel, and 4th on pullet. 4 prizes on 4 entries. How is that? We have green range the year around. Eggs, \$1 per 15, or \$5 per 100.

H. E. VAN DEMAN & SON, Parksley, Va.

Classified Advertisements

Fully prepaid advertisements of thirty words or less inserted under this heading at the following rates:

One time.....	\$.50
Three times.....	1.00
Six times.....	2.00
One year.....	3.50

READ CAREFULLY.

Copy may be changed as often as desired, though we advise running a standard ad. when possible, in order that buyers may become acquainted with it. Length of ad. is not limited, but additional words will be charged at the rate of 1½ cents each for one insertion, or 1 cent each for each insertion when run three times or more. Initials and figures count as single words.

PLYMOUTH ROCKS

BUFF PLYMOUTH ROCKS ONLY.

Now "Old Glory" proudly waves o'er Porto Rico: The Philippines are ours, and Cuba free; Vast armies must be paid, you can meet the taxes laid.

By breeding Burdick's "Nuggets," don't you see?

My strain is well known as producing the winners at all the leading shows, Chicago, '99 included. Matings for 1899 surpass anything before attempted. January and February eggs half price. Eggs that hatch, for March, April, and May \$3 for 15. After May eggs again half price. Breeding and exhibition stock always reasonable. Write, H. S. BURDICK, Rome, N. Y.

WHITE ROCKS EXCLUSIVELY. Bred for practical and exhibition purposes. Two firsts and one second from three entries, Hagerstown, 1898. First and second hens, second cockerel, Washington, D. C., 1899. Eggs, \$1.50 per 13. Stock for sale. J. F. DEFANDORF, Garrett Park, Md.

TWO B. P. ROCK COCKS for sale, each a winner as cockerel last season, one at Charlotte, Lambert, judge; other at Shelby, Marshall, judge. Eggs when you want them. B. S. DAVIS, Asheville, N. C.

BUFF PLYMOUTH ROCKS ONLY. "Pure Burdick strain." No more stock till fall. Eggs from select, high-class birds only, \$2 per 13. Winners among them; satisfaction guaranteed; try me. VERNON K. DAYHOFF, Chewsville, Md.

BARRED PLYMOUTH ROCKS EXCLUSIVELY. First-class stock for sale. Large, good shape, and well barred cockerels at \$1.50 to \$2.50 each, pullets same price. If not as represented can be returned at my expense. WM. R. PAGE, Avon, N. Y.

REMEMBER MY E. B. THOMPSON Barred Plymouth Rocks. You will be left outside if you don't get some of my stock. Cock and cockerels for sale cheap. Eggs for hatching. H. T. BROWN, Wallkill, N. Y.

BUFF PLYMOUTH ROCKS of high quality, exclusively. My yards contain first cock, second hen, first pullet, at Cleveland, and fifth pullet at Kansas City, '97, and second pullet at the Great Hamburg Show. First cockerel, Mt. Gretna, New York State Fair, Poughkeepsie, and Middletown, and first pen, New York State Fair, '98. Young stock from above breeders cheap, considering quality. Also a few yearling breeders. H. C. FOXTON, 416 Hamilton St., Syracuse, N. Y.

A. W. ADAMS, Hartwell, Ga., offers Barred Plymouth Rocks, Hawkins and Thompson Strains in pens of five, one cockerel, four pullets, for Five Dollars per pen. Last Season's pen headed by fine cock direct from Hawkins. Reference, by permission, Hartwell Bank.

SPRUCE RUN BARRED P. ROCK FARM. A few choice cockerels for sale. Price, \$2. Eggs, \$1 per setting, \$4 per 100. Write for wants. GEORGE REED, Glen Gardner, N. J.

BARRED PLYMOUTH ROCKS EXCLUSIVELY. Thompson strain. Eggs for hatching from six choice well-mated yards, \$1.50 per 15, \$5 per 100. H. E. KIPP, Red Hook on Hudson, N. Y.

GOLDEN BUFF ROCKS (Burdick). Pen direct from Foster, who won 1st on birds at Hagerstown and Johnstown. Good breeding pullets for sale. Eggs anytime. Write, J. D. STUDLEY, Gowanda, N. Y.

BARRED PLYMOUTH ROCKS. Thompson & Bradley Bros' strains. Eggs from fine large birds \$2 per 13. "Fertility of eggs guaranteed." T. H. HARTMAN, Fullerton, Lehigh Co., Pa.

BARRED PLYMOUTH ROCKS, from the best strains. My yards are mated with birds that are fine in shape, color and markings. Eggs \$1 per 13. W. J. WELLS, St. Peters, Pa.

FIRST-PRIZE BUFF ROCKS FOR SALE. Saratoga, 1894 '5 '6 and '8, 4 firsts, 2 seconds, on 6 entries, Northup, judge, Troy, '96, Rochester, '97. Lemon-buff, pure under-colored birds \$2. Exhibition birds especially. Satisfaction guaranteed. N. V. WITBECK, Burnt Hills, N. Y.

OVERBAUGH'S BARRED PLYMOUTH ROCKS. Won at Mt. Gretna 1898, 1st and 2d cock, 1st and 4th hen, 3d cockerel, 3d pullet, \$5 gold special and Pennsylvania State Poultry Association Bronze Medal for best display. Eggs \$2 for 13. "Hub" 1st Boston cock, heads one of my yards. Also Buff P. Rocks and Buff Leghorns. Catalogue free if mention The Feather. W. H. OVERBAUGH, JR., Hanover, Pa.

BUFF PLYMOUTH ROCK EGGS \$1 per setting; \$4 per hundred. M. E. COOKE, Sandwich, Mass.

BUFF PLYMOUTH ROCKS. Strong, vigorous birds buff to the skin. Stock for sale. Incubator eggs, \$4 per hundred. Circular free. JAS. H. CORWITH, Water Mill, N. Y.

BARRED PLYMOUTH ROCKS exclusively. First-class stock for sale. Large, grand shape and blue barred. Cockerels at \$2 to \$4 each. We are especially strong in fine pullets, good color, and clean yellow legs and beaks. Your money back if not as represented. Write, J. F. HOLLENBECK, Afton, N. Y.

BARRED PLYMOUTH ROCKS. Be in line with prize winners next fall. Get eggs early from my superior high-scoring birds. Write me. T. A. SOMDAL, Mansfield, Ill.

JUST LISTEN! White P. Rocks exclusively. Won all firsts at North East, Fredonia, Erie. Pullets scoring as high as 95½, headed by our celebrated cockerel, "Victor," 94½. Eggs, \$2 per 15. Address, C. W. PAGE & SON, North East, Penn.

LEGHORNS

CEDAR HILL POULTRY FARM—Write to Cedar Hill Fruit and Poultry Farm for prices on Single Comb Brown Leghorn, Barred P. Rock, Buff Cochins and Light Brahma fowls and eggs. Some fine surplus cockerels of first-named breeds for sale low. Eggs for incubator use \$5 per 100; good common eggs (large breeds), \$2.50 per 100. R. S. COLE, Harmons, Md.

FORSYTH STRAIN S. C. BROWN LEGHORNS. 12 prizes on 10 entries at Rochester, 1897. Fine young and old stock for sale, cheap, that will score into the 90's. Write wants. FRANK G. RICE, Dansville, N. Y.

PLEASANT VIEW POULTRY YARDS.—R. C. Brown Leghorns, which are again winning prizes at all the leading shows. Have a few show and breeding cockerels for sale at low price, for want of room for my breeding yards. Birds are strong and healthy. W. G. FRONHEISER, Prop., Pottstown, Pa. Address, J. B. HOFFMAN, Mgr., Sanatoga, Pa.

S. C. BROWN LEGHORNS. Tenth season. Stock and eggs for sale. Eggs, \$1.00 per setting. Cornish Indians' and B. P. Rocks' Eggs, \$1.50 per setting. HOWARD A. PINNEY, Sheffield, Pa.

S. C. B. LEGHORNS. Do you want typical shape and style? Do you want small combs and pure white ear-lobes? Also rich color? Address, W. B. GERMAN, Specialist, Millville, Pa.

BUMP'S S. C. WHITE LEGHORNS made nearly a clean sweep at Cambridge and Johnstown last fall. Eggs from my best mating \$2 per 15; \$5 per 100; from birds with free range. A few good cockerels at \$2 each. White Holland Turkey eggs \$2 per 13. H. V. BUMP, Cambridge, N. Y.

50 C. PER DOZEN, \$3.50 per hundred, Wyckoff strain. White Leghorn eggs. Circular free. S. J. BISHOP, Cheshire, Conn.

FINE BUFF LEGHORNS (Arnold's strain) and Golden Wyandotte (Kellar strain) cockerels for sale with score cards and prices that will just suit you. Eggs in season, \$1.50 per setting. Try us. Satisfaction guaranteed. C. F. BLACKMON & SON, 116 South St., Painesville, Ohio.

\$2 PER 15, S. C. WHITE LEGHORN EGGS. Mention express office before ordering. It will pay to write for particulars. Stock in fall. A. W. GLUESINKAMP & SON, Batesville, Ind.

ROSE COMB BROWN LEGHORNS exclusively. 15. Hadley strain. Pure stock; farm raised; 12 years' experience with this variety. Eggs, 50 cents a setting. V. W. BASEL, Box 34, New Milford, Ohio.

50 S. C. BROWN LEGHORN cockerels and pullets, sired by first prize cockerel, Hamilton, Va. and Hagerstown, Md., 1897. Also 150 Barred and Buff P. Rocks, Buff Leghorns, and Black Langshans, sired by males direct from Thompson, Burdick, Arnold, and Robinson, price \$1 to \$3 each. Eggs, \$1 per 13; \$2 per 30. ROCHELLE POULTRY YARDS, G. W. WAYLAND, Prop., Rochelle, Va.

WAYNE POULTRY YARDS. Coatesville, Chester Co., Pa., J. H. SCHERER, Prop. S. C. B. Leghorns exclusively—Winners at the following shows in 1897: Pottstown, Pa., Scranton, Pa., Mt. Gretna, Pa., Carlisle, Pa., Seneca Falls, N. Y., Sanatoga, Pa. Eggs, \$1 per setting. Stock for sale. Postal for circular.

BRAHMAS

CHESTNUT GROVE POULTRY YARDS JOSIAS J. GEORGE, Proprietor. Yards at Jenkins P. O., Long Green Valley, Baltimore Co., Md. City address, 443 North Street, Baltimore, Md. Light Brahmas Exclusively. Early-hatched cockerels and pullets for sale. Cockerels, \$3 to \$5; trios, \$5 to \$8. Yard headed by cockerel 1st prize at Washington, 1897.

DARK BRAHMAS, early hatched, large and vigorous, the results of 6 years' careful and successful breeding, at \$3 per pair. Silver Sebright Bantams, exquisite in lacing and color, same price. Address, FRANK H. KELLER, Elizabethtown, Pa.

LIGHT BRAHMAS.—As fine as there are in the South, as our show record will prove, birds score to 95. A fine lot of breeders and show birds for sale, including first and second prize cockerels at the State Fair. Also Minorcas, B. Langshans, Bantams, and Pit Games. W. D. HARRILL & CO., Ellenboro, N. C.

CHOICE UP-TO-DATE STOCK of Light Brahmas, Single Comb Brown Leghorns, and Barred Plymouth Rocks. Eggs, \$1 per 13. Stock for sale. Satisfaction guaranteed. If you wish high quality and fair treatment, address, J. M. PORTER, Morristown, N. J.

FRANK L. GARDNER, Fitchville, Conn., breeder of prize-winning Light Brahmas, "Duke of York" strain. Also choice White Wyandottes. Eggs from prize matings at \$2 per 15. Satisfaction guaranteed.

L. H. MORSE, Newark, New York, originator and breeder of the celebrated Imperial strain of Light Brahmas, unsurpassed for their great size, grand shape, superb color, fine comb, profuse middle-toe feathering, and superior laying qualities. The Imperial Light Brahmas are the result of careful study in mating for finest points, without detriment to utility. They have been bred continuously since 1881, and are a vigorous, prolific strain, possessing perfect Brahma character according to the Standard of Perfection. First-class birds for sale reasonably. Eggs, \$2 per 13. All birds sold on approval.

TEN HEAD LIGHT BRAHMA COCKERELS, good size, grand form, immense leg and toe feathering, and are black and white. Satisfaction or your money back. \$2 to \$5. A. T. MALORY, Benton Centre, New York.

FOR SALE.—JOHN L. COST, Hagerstown, Md., has for sale cheap Light Brahma cocks, cockerels, hens, and pullets. Must be sold. Send for prices.

LIGHT BRAHMAS EXCLUSIVELY. My stock is absolutely pure and thoroughbred. Eggs for hatching a specialty. Try me. Satisfaction guaranteed. Eggs, \$1.50 per 15. F. W. DAVIS, Keyser, W. Va.

FOR SALE.—4 fine trios of Light Brahmas, one year old, at a bargain; also 25 Light Brahma cockerels for sale from \$2 to \$5 each; all good standard weight. HALENBACH POULTRY YARDS, Box 141, Wilkes Barre, Pa.

GAMES

CHAS. T. CORNMAN, Carlisle, Pa., breeds all varieties of America's best Games, Game and Variety Bantams. If you do not believe it, look up the awards at the great shows. Eggs in season. Stock for sale. Send for price card.

FINEST GAMES ON EARTH. Circular free. Irish Black Reds, Heathwoods, Irish and Mexican Grays, Cornish Indians, and Ronen Ducks. Buy now and save money. Mention The Feather. C. D. SMITH, Fort Plain, N. Y.

H. T. HERMAN, Carlisle, Pa., breeds the choicest strains of Black Breasted Red and Red Pyle Games, White Faced Black Spanish, Black Breasted Red and Red Pyle Game Bantams. Stock for sale. Eggs, \$2 per 15.

FOR SALE.—Indian Game cocks, cockerels, pullets, and hens. Premiums at Washington show every time exhibited. See premiums 1899. E. M. MELLOR, Sykesville, Md.

COCKERS. Enclose stamp for circular of Games and Gaffs, containing portraits of famous pit winners, together with notes on Conditioning, Heeling, Dubbing, etc. Mention The Feather. H. P. CLARKE, Indianapolis, Ind.

PURE SOUTHERN BLOOD PIT GAMES. I breed the following strains in their purity, viz: Eslin's celebrated Red Quills, Brown's Georgia Shawnecks and Huddlesons. Stock from the above for sale; also eggs; prices reasonable. Correspondence solicited. JOS. A. WILSON, Johnson City, Tenn.

WYANDOTTES

WYANDOTTES, GOLDEN, BUFF AND Partridge. My yards contain McKee's best yards, bought from his widow. My own have always won at leading shows. Stock and eggs for sale. Send for catalogue. W. A. DOOLITTLE, Sabetha, Kan.

SILVER WYANDOTTES EXCLUSIVELY.—Winners and layers; healthy, vigorous stock. March and April hatches now being ordered. Prices reasonable. Satisfaction guaranteed. Write. J. M. HAMBLIN, HIGHLAWN FARM, Vienna, Fairfax Co., Va.

SILVER WYANDOTTES.—I have for sale 15 cockerels for \$2 to \$5; 1 cock \$3; 12 females \$1 to \$3. Satisfaction guaranteed.

R. G. WILLIAMS, Barre, Mass.

SEVERAL CHOICE WHITE WYANDOTTE cockerels \$2 each, no pullets for sale. Eggs, \$1 per 13. Two Bull Terrier puppies, 5 mos. old \$3 each. F. W. TEMPLE, West Chester, Pa.

WHITE WYANDOTTES EXCLUSIVELY. Best all-around breed. Extra fine stock for sale at all times. My stock is strong, vigorous, and farm raised. A. H. ARNOLD, East Townsend, Ohio.

BUFF WYANDOTTES EXCLUSIVELY. The greatest general-purpose fowl in existence. Stock for sale at reasonable prices. Eggs from best matings at \$1.50 per 15.

W. P. PRATT, Chatham, N. Y.

BORMAN'S GOLDEN WYANDOTTES win the leading prizes at the leading shows. At Boston, 1898, they won first and second on hen, first and second on pullet, first and fifth on cockerel, and first on breeding yard. I did not enter any cocks. Send for catalogue and other records. Eggs, \$3 per 13; \$5 per 20. FRED. BORMAN, Danbury, Conn.

SILVER LACED WYANDOTTES exclusively. Ten years' experience with this breed alone and I think I have as good stock as any one, although my prices are not as high as some. If you want either fowls or eggs write me and I will do my best to please you. C. N. GILBERT, Flint, Mich.

SILVER WYANDOTTES EXCLUSIVELY. Large and blocky, fine combs and lacing. Won their share of prizes. Catalogue of Silvers and Poultry Supplies, free. CHAS. R. SWAIN, Zionsville, Ind.

BUFF WYANDOTTE EGGS. Thirteen, 60c; twenty-six, \$1; one hundred, \$3.50. From pure-bred, farm-raised stock. CHARLES ROSE, Water Mill, N. Y.

SILVER LACED WYANDOTTES AND Barred Plymouth Rocks of the first prize-winning strains in America. Eggs only \$2 for 15. JOHN A. CULLUM, Box 113, Ridge Spring, S. C.

WHITE WYANDOTTES EXCLUSIVELY. Eggs for hatching from large pure white hens, \$2 per 15; \$3 per 30; orders booked now. Eggs after February 15th. Homers from the best strains. H. F. LIETZ, Box 158, Meriden, Conn.

WHITE WYANDOTTES A SPECIALTY from the finest stock in the country; Buff Leghorns from Blood and Shepherd strains. First premium on Wyandottes at White Plains, '98. Eggs, \$2.50 per setting. CHAS. E. SELCHOW, Port Chester, N. Y.

WHITE AND BUFF WYANDOTTES and Black Langshans, winners of 48 prizes at Mt. Gretna, Carlisle, Hagerstown, and Pittsburg. Eggs from winners \$1.50 per 13. Stock for sale. ARMBRUST BROS., Armbrust, Pa.

WHITE WYANDOTTES.—First-class stock. Satisfaction guaranteed. Eggs for hatching, \$2 per 13; \$5 per 40. J. D. BARNES, Wenham, Mass.

\$1.25 EACH. Choice White Wyandotte and Buff Leghorn cockerels, bred from first-prize winners at Pittsburg, Erie, and Titusville shows. Also pairs, trios, etc. Write wants. Satisfaction or no sale. G. W. MAURHOFF, Saxonburg, Pa.

EGGS THAT WILL HATCH from best strains White Wyandottes and Single Comb White Leghorns, \$1.50 per 15; \$5 per 100. Satisfaction guaranteed. W. E. SHOEMAKER, Laceyville, Pa.

BUFF WYANDOTTES EXCLUSIVELY.—Piser strain direct. Winners of 22 prizes and specials, at Mt. Gretna, Coatesville, and West Chester, Pa., '98. Eggs, \$2 per setting; 3 settings \$5. H. B. HARK, Paradise, Pa.

HIGH CLASS WHITE WYANDOTTES, farm raised, large size, and vigorous. My stock has produced many prize winners. This year's matings the best I ever had. Eggs, \$1.50 per 15. H. M. BURR, South Milford, Mass.

HARWOOD'S BUFF WYANDOTTES are from the very best prize-winning strains. I have also purchased entire stock of Boyd's Blue Wyandottes. Circular. W. H. HARWOOD, M. D., Chasm Falls, N. Y.

MINORCAS

BLACK MINORCAS EXCLUSIVELY. (North-up strain.) Fine, large, vigorous, healthy birds, bred from my Washington prize winners. Stock and eggs for sale in season, good hatch guaranteed. THE FEATHER, one year with egg order. E. D. CROUCH, 1013 G Street S. E., Washington, D. C.

BLACK MINORCAS.—We have some grand youngsters cheap, quality considered, if taken soon; also Light Brahmas, B. Langshan Bantams, and Pit Games. Write us.

W. D. HARRILL & CO., Ellenboro, N. C.

BLACK MINORCAS.—Choicest birds from the flock owned by the late John M. Lown. Garland and Royal strains. Eggs, \$1 per 13. MRS. J. M. LOWN, Bennettsburg, N. Y.

I HAVE PURCHASED the entire stock of Black Minorcas from Wilcox & Son, Wilkes Barre, Pa. Fine birds for sale. Write for prices of eggs and fowls. L. J. WILLIAMS, York, Pa.

BELMONT STRAIN BLACK MINORCAS contain the best Minorca blood in the country. They are all standard weight or over, and are extra good in all other points, especially as layers. Eggs at \$1 per 13, and satisfaction guaranteed, or I will refund your money. Write me. O. W. TAYLOR, Tyrone, Blair Co., Pa.

CALUMET STRAIN BLACK MINORCAS are of superior quality, large size, true Minorca shape and color. Bred for exhibition and utility. Eggs, \$2 per 13. FRANK H. GERISH, Haverhill, Mass.

POLISH

POLISH. S. F. Gulliford, Akron, Ohio. Importer and breeder of White Crested Black, Bearded Silver, Bearded Golden, and Bearded Buff Laced Polish, also Silkies of the finest quality. It has been my aim for many years to breed these beautiful fowls to the highest standard of perfection. My show record stands as evidence. Birds for sale at all times and eggs for hatching in season.

HOUDANS

HOUDANS EXCLUSIVELY for 20 years. Breeding stock and show birds at reasonable prices. Large White Holland Turkeys fit for the show-room. Eggs in season. G. A. HOBART, Chittenango, N. Y.

HOUDANS ONLY. 32 years of continuous breeding of Houdans for utility and beauty. A sweeping record of prizes won at the great shows of this country. Circular free. Eggs, \$2 per 13; \$5 per 39. Fine cockerels for sale. DANIEL PINCKNEY, South Onondaga, N. Y.

LANGSHANS

BLACK LANGSHANS EXCLUSIVELY.—Fine, large, vigorous stock, good color and true shape. A limited number of settings from best breeding pen at \$3 per 15. A. M. CORDRAY, 752 Carroll Ave., Waverly, Baltimore, Md.

F. C. BEACH, Plain City, O., breeder of Black Langshans exclusively. Eggs, \$1.50 per 13. Birds for sale.

THE BEST BARGAINS EVER OFFERED in Black Langshans. 8 yearling hens @ \$2; 6 pullets @ \$2; 1 two-year-old cock, \$3; 2 cockerels @ \$2; 6 W. Wyandotte cockerels @ \$2. Must be sold at once to make room. Write quickly. Satisfaction guaranteed. Address F. L. DENTON, Holmes, N. Y.

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GOLDEN AND SILVER SEBRIGHT, BLACK Rose Comb, Silky, White Crested, White Polish, White, Black and Black Tailed Japs, Buff, Black and White Cochins Bantams; Fantails, White, Colored, Saddles, Tails and Splashes. Write for wants. My prices are low. Stock first class. IRVIN S. MILLER, 397 Chew St., Allentown, Pa.

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Buff and White Wyandottes.
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WHITE PLYMOUTH ROCK. White Minorca, Black Minorca eggs, all at \$1.50 per 15; \$2.75 per 30; \$4 per 45; \$7 per 100. Yards are headed by cockerels that are not related to hens and are vigorous and healthy. Have free grass range. If you want layers, size, and style I can give you satisfaction, having spared neither time nor money in bringing them to perfection. Stock for sale in September. Address, **EDWARD E. ALLEY**, PINE HILL POULTRY FARM, Peekskill, Westchester Co., N. Y.

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FOR SALE OR WORK ON SHARES. Poultry and Truck farm, near town of 7,000; good buildings well stocked; other business; for particulars address, W. D. LATHROP, Elizabeth City, N. C.

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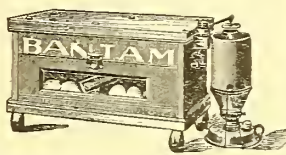
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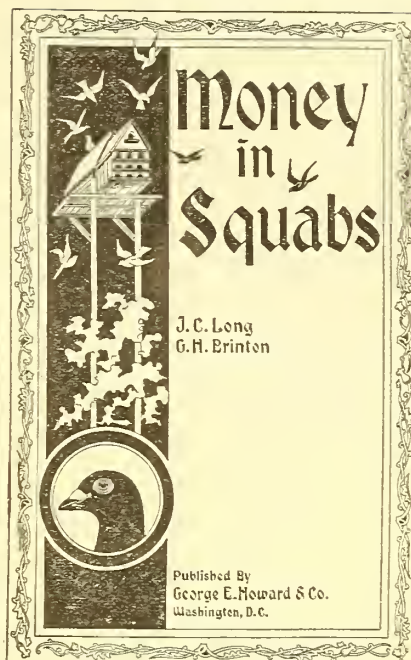
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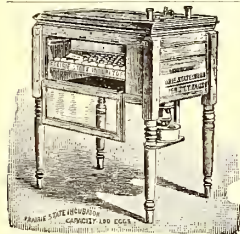
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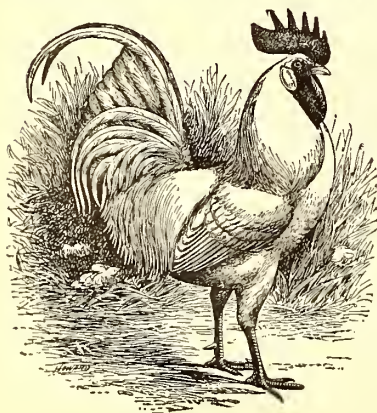
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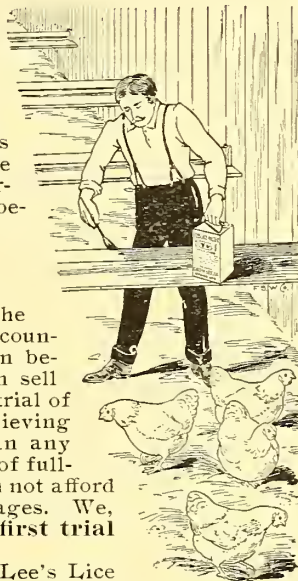
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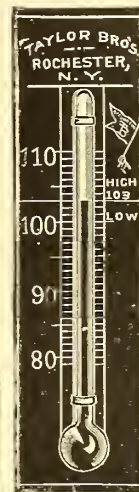
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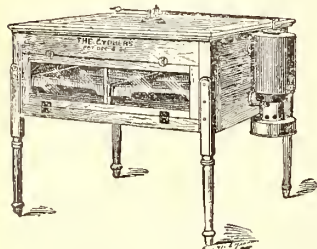
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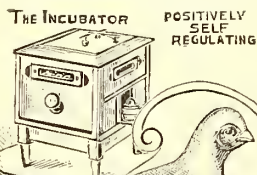
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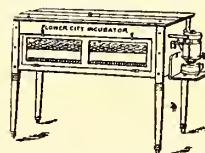
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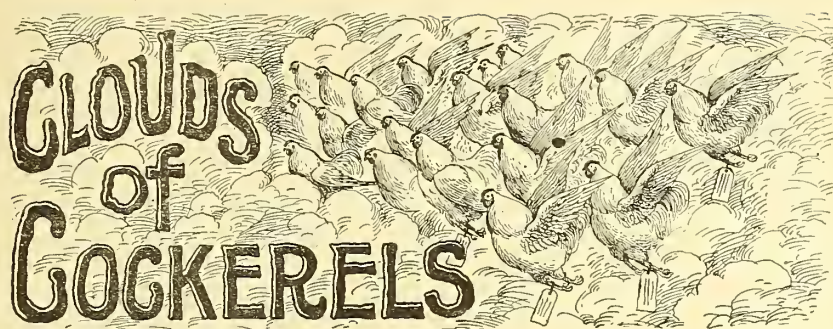
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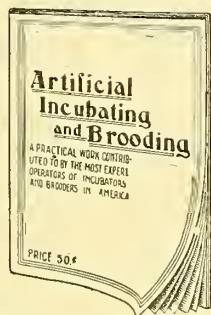
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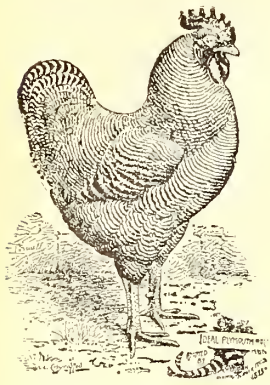
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Stock For Sale at all times. Exhibition Stock a Specialty.

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At the Chicago show we won on Silver Wyandottes: 1st, 3d, and 4th cocks, 1st and 4th hens, 1st and 4th cockerels, 2d pullet, 2d and 3d pens. Also highest bird in class. Buff Wyandottes, 3d cock, 4th hen, 1st pul., 3d pen. This with our record of 3 firsts at the World's Fair, and silver cups, and more than half of the regular prizes at the Missouri State and Mid-Continental shows, also winners at the Boston show of '98, proves that our birds are second to none. Yearlings for sale at reduced prices for the next 30 days; also a choice lot of young stock. Write your wants. Mention THE FEATHER.

...Blanton's Black Minorcas...

White Wyandottes, B. P. Rocks, Cornish Indian Games.

LIST OF WINNINGS.

At Upper Marlboro, Md., September 6-9, 1898, I won the following: 1st pen White Wyandottes; 1st pen, 1st cockerel, and 1st pullet, Black Minorcas; 2d pen, 2d cockerel, 1st pullet, Barred Plymouth Rocks; 2d cockerel, Indian Games.

At Old Dominion Poultry Show, Hamilton, Va., November 2-4, 1898, 1st, 2d, and 3d pullets, 1st cockerel, 1st and 2d pens, Black Minorcas; 1st cockerel, 2d pullet, 3d hen, Indian Game; 2d cock, 2d and 3d hens, 2d pullet, 3d cockerel, White Wyandottes.

At Washington, D. C., January 10-14, 1899, 1st and 2d hens, 2d and 4th pullets, 3d and 4th pens, Black Minorcas; 5th pen, Barred Plymouth Rocks. Also, special for best Black Minorca hen.

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Eggs, \$2 per setting.  
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Orders booked now for future delivery.
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Correspondence Solicited.  
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CHAS. L. BLANTON, Falls Church, Va.

### TESTIMONIALS.

WASHINGTON, D. C., June 5, 1898.

CHAS. L. BLANTON,

DEAR SIR: Out of the 15 Black Minorca eggs purchased from you, I got 13 chicks. I am much pleased with results. I still have the 13, and they look like there will be some prize winners. I hope to make you hustle at our next poultry show.

R. H. LANSDALE, 1214 S Street N. W.

ARLINGTON, VA., August 26, 1898.

CHAS. L. BLANTON,

DEAR SIR: Of the 15 White Wyandotte eggs purchased of you 11 hatched, and I am very much pleased with them. Wish to say that I am satisfied with the chickens and with the courteous treatment I have received, and should any friends need eggs or stock will take pleasure in referring them to you, feeling assured that they, too, will receive the same fair treatment accorded me.

Very truly, MARY V. SCANLAND.

WATERBURY, MD., September 24, 1898.

CHAS. L. BLANTON,

DEAR SIR: I am more than pleased with your stock, (Black Minorcas). I bought some of a Pennsylvania dealer at same time I purchased of you, and I would not give one of your breed for all I got from him. Yours,

E. F. JOYCE.

STEWARTSTOWN, PA., October 7, 1898.

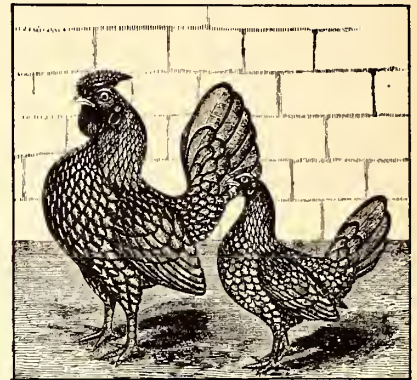
CHAS. L. BLANTON,

DEAR SIR: The Single Comb Black Minorca cockerel arrived in good condition and I am well pleased with him. A finer plumaged bird I never saw, and for style he walks like he owned the place. Best of all he won 1st premium at the show. Yours truly,

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My flock this year is better than ever before. They are little gems, they sparkle like diamonds.

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My prices are lower than I ever made before, because my flock is so large that I must sell some, so as not to crowd the others.

## If You Want Them

You should not delay in writing me. I can sell you breeding birds, and exhibition birds that will win in any company.

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PLYMOUTH ROCKS,

I won at Manchester show, January 4, 1st pullet, 1st pen, 1st cock, tie on 1st cockerel, 2d pullet, Very Highly Commended on pullet, silver cup for ten highest scoring birds.

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These grand and noble fowls are fast coming to the front. Their beauty and utility are acknowledged by all. Stock for sale. Eggs, \$1.50 per 13. Prices low. Circulars free.

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Box H, Mattituck, N. Y.



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Poultry  
Yards....

DO YOU WANT WINNERS?

170 Prizes won last season at National Poultry Show, N. C. State Fair, and Piedmont Poultry Show.  
Grand lot of show birds and breeding stock bred from the winners, now for sale at moderate prices.

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Pekin Ducks, White Wyandottes, and White Rocks,

Are money makers. Our Pekins the past Winter won on 6 entries at Madison Square Garden, 1, 2, and 3 on both duck and drake. At Hagerstown, Md., a clean sweep of all Pekin prizes. At R. I. Poultry Show 15 regular and 3 special prizes on 16 entries, (losing 4th on old drake). At R. I. State Fair clean sweep.

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Only Duck Farm in New England advertising where premiums are won.

**Stuckey's Buff Plymouth Rocks**, Are Birds of highest quality also prize winners in high society and high scoring. My breeders and young birds for sale at great bargains if taken early.

**Fancy Buff Leghorns.** No better East or West than some of my Prize Winners. Also White Rox. Now is your chance to get good birds. Don't fail to write if you want good stock. Address, **C. J. STUCKEY, Mechanicsburg, Ohio.**

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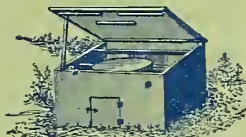
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\$5 Prize Brooder.

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AGENTS WANTED. **G. E. CONKEY & CO., Cleveland, Ohio.** Do not send stamps.



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Every bird described in detail, and if not, can be returned within one day at our expense. Correspondence invited. Eggs after February 1, 1899. Also Golden Sebright Bantams. Address,

**THE WAUTAUGA POULTRY YARDS,**

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Our yards contain some of the world's choicest specimens as breeders among which are the famous pair of Cornish Indians recently imported by us from Mr. Jas. Frayne, (and of which the cut here shown is an exact representation, taken from life), which won first and cup at the Crystal Palace show in London in 1897; many of Thompson's and Sharp's finest breeders of both varieties of Indians; as well as White Rocks as follows: The White Rock cock which headed one of A. C. Hawkins' best yards last year, score 94; hens winning 1st and 2d in New York, and recently scoring 96 and 95½ by D. M. Owens; a pen winning second at the last Washington, D. C. show, some of the pullets being scored over 95 by Lambert. Illustrated and descriptive catalogue sent for stamp. Prices reasonable, considering quality. Every egg guaranteed to be fertile, or replaced free.



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Bone Meal, Granulated Bone, Crushed and Granulated Oyster Shells and Charcoal, Lime-stone, Grit, Bone Mills and

**Everything For The Poultry Yard**  
 For Sale at Reasonable Prices.

## THE CROWN BONE CUTTER

We are now offering as a specialty a new Bone Cutter—The Crown—at the exceptionally low rate of

**\$6.50 with Balance Wheel (without stand)**  
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2100 Cup for Best Leghorn Cock  
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 BROWN LEGHORN SPECIALIST,  
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Also \$1.50 for every 15 Eggs from Sherwoods, White Wonders, White and Cornish Indian Games, Black Javas, and American Dominiques.

**"The Reliable Brookside Farm,"**  
 Nelson, Pa.



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the  
best

at fair prices,  
write me.

**BARRED PLYMOUTH ROCKS,  
WHITE PLYMOUTH ROCKS,  
BUFF PLYMOUTH ROCKS,  
SILVER WYANDOTTES,  
WHITE WYANDOTTES,**

Have won more prizes at the leading shows of America and England than all others. The product of my 1898 matings is superior to that of previous years.

At the Great National Show, WASHINGTON, D. C., December, 1897, in hot competition with over 300 Birds of these varieties, the best that could be found regardless of price, I won 45 Regular and Special Prizes on 39 Entries, including First Prize on Breeding-Pen in each variety, Special for Best Display in the American Class, Special for Best Exhibit of Plymouth Rocks, Sweepstakes Special for Best Cockerel in the Show (Bantams excluded), and this on my First-Prize Barred P. Rock Cockerel. My winning White Wyandotte cock was pronounced by the judges to be the best they had ever seen. I won twice as many first prizes as all other exhibitors of these varieties. My customers are winning all over the country. Hundreds of Choice Exhibition and Breeding Birds at honest prices. Catalogue of America's finest P. Rocks and Wyandottes free.

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"NEW YORK CHIEF."

1st Ckl. N. Y. City, 1897.  
1st Cock N. Y. City, 1898.

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Has been reached by

### Robinson's Black Langshans

At Madison Square Garden, New York, 1898. America's Greatest Show.

#### 14 PRIZES ON 15 ENTRIES.

1st and 3d on cocks, 2d, 3d, and 5th on cockerels, 2d, 3d, and 5th on hens, 1st and 2d on pullets, and 1st, 2d, and 3d on exhibition yards. Grand special for best Langshan any color. In the last four years the bulk of all the prizes has been won by this strain at this great show, viz:

51 prizes out of 57 competed for.  
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Eggs, \$5 per 13; \$9 per 26; \$12 per 39.

Finely illustrated circular for 2-cent stamp.

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Sec'y and Treas.



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AT CHICAGO, 1899,

(The Annual meeting of the Buff Rock Club.)

Won more regular premiums than any other exhibitor, in a class of 82 birds by 14 exhibitors. Among the specials was the one for 2 best cocks, hens, cockerels, and pullets by 1 exhibitor; also special for most even colored cock. Still have some choice breeders for sale. Eggs, \$3 per 13. Orders booked now. Send for circular.

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AT NEW YORK, FEBRUARY, 1898,

### E. B. Thompson's Barred Plymouth Rocks,

Again won all the Sweepstakes cups and Trophies, including the Superb Challenge Trophy, value \$100, for best cock, cockerel, hen, pullet, and exhibition pen. Sterling Silver Cup, value \$100, for finest exhibit. Grand Special Sweepstakes Cup, value \$100, presented by the President for best cock, cockerel, hen, and pullet, Plymouth Rocks, any variety.

### My Clean Sweep of 1st, 2d, 3d, 4th and 5th Prizes on Pullets

Has never been approached in Madison Square Garden and stands alone and unequalled. The record of both 1st and 2d Prizes on Breeding Pens is also phenomenal. At New York, 1895-6-7 my Barred Plymouth Rocks won almost 3 times as many 1st prizes as any other exhibitor, and more 1st prizes than all competitors combined. Grand Stock for sale. Show birds fit to win in the fastest company. Elegant Breeders in any number. Eggs from finest exhibition matings, one setting \$5; two settings \$9; three settings \$12. Richly illustrated catalogue on Application. Address,



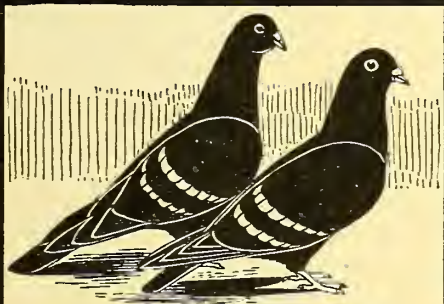
First-Prize B. Rock Pen at New York, February, 1898.

**E. B. THOMPSON, Box 406, Amenia, Dutchess Co., N. Y.**

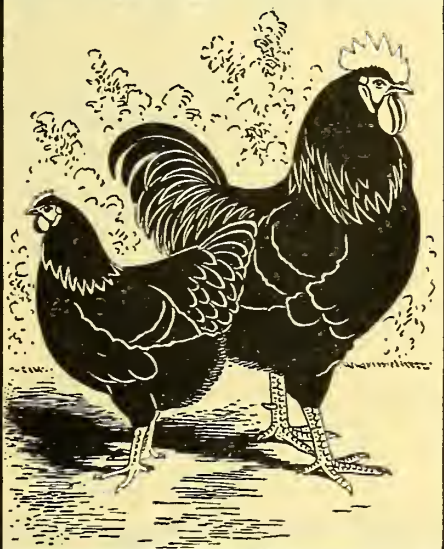


The April Issue of THE FEATHER will be 15,000 Copies.

# The Feather



PIGEONS



POULTRY

WASHINGTON, D. C.  
Vol. IV. MARCH, 1899. No. 6.

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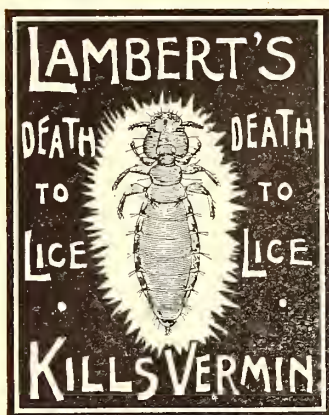
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Use LAMBERT'S DEATH TO LICE.

A dose gives immediate relief, and a frequent dusting will keep a fowl clean, comfortable, and profitable. If a little could be placed in or around their tail-feathers while at roost, say once each month, there would be no need of handling each bird separately. A handful in each nest will keep the layers all right, and nothing but lice and bad smells are killed with this powder. Little chickens are often victims of head lice. They fasten their fangs into the cranium of the little "peepers," when from two to six weeks old, and suck the very life from every chick, unless removed by force or an application of Lambert's Death to Lice.



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ARE IDENTICAL WITH SUCCESS.

You need not fear defeat if you breed this strain.

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Eggs from the finest matings I ever made and winners are sure to come.

#### PROOF OF QUALITY.

MR. E. B. THOMPSON.

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ST. JOHNS, P. Q., February 7, 1899.

Yours truly,

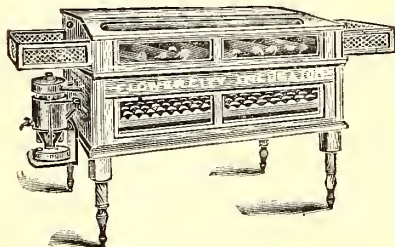
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See large ad on back cover page.

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I breed them for shape, size and color. Choice eggs at \$1.50 per 15; \$2.50 per 30; \$6 per 100.

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1st cock, 2d hen, 2d cockerel, 1st and 2d pullet, at Great New York show, 1899.  
LEBANON POULTRY YARDS,  
Lebanon, Pa.

## ..BLACK MINORCAS..

Invincible Wherever Shown.

Winners at Madison Square Garden, 1899: 1st and 5th cock; 3d and 4th hen; 1st, 3d, and 4th pullet; 2d pen.

New York State Cups for best cock, hen, cockerel, pullet, and pen.

Board of Directors' Cup for best five male birds.

Special for best exhibit in open class.

Special for best two cocks and two hens.

Special for best two cockerels and two pullets.

Special for largest exhibit in class.

I have also purchased and added to my breeding stock the Grand First-Prize Breeding-Pen of Minorcas at Madison Square, 1899.

C. J. ANDRUSS,

Canandaigua, N. Y.

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Crushed Oyster Shells (100-lb bag) - 75  
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Cutters, Lee's and Lambert's Lice Killer, cheap.  
Write for large illustrated catalogue of Poultry  
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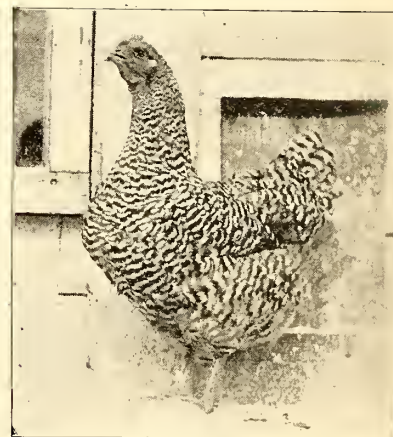
Buff Wyandottes and Homing Pigeons.

Prices Reasonable.

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### Barred Plymouth Rocks

Seem Interested in Our Success,



In again proving our claim to be experts, judging from letters of congratulation and our receiving, **Three for One**, more orders now than before.

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At the Great National Show, Washington, D. C., where America's greatest breeders show. Full particulars and photographs of fine birds sent. Address,

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Pike's Lice Destroyer is the only lice killer that is sold on a guarantee to kill lice and mites or money refunded. It is no trouble to use it as the liquid is sprinkled on the roosts and kills the vermin while the poultry sleeps.

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Crushed Oyster Shells, per 100 lb. bag ..... .75  
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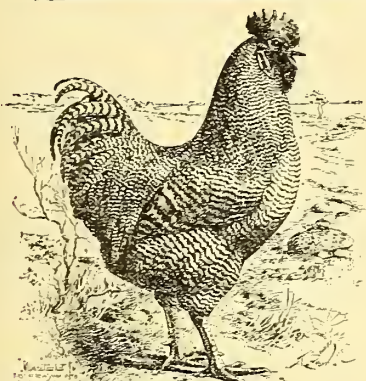


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## BARRED PLY. ROCKS

From best Blood in America.



"MUNNATAWKET JR."  
First Cock at New York, 1898.

White and  
Buff Rocks....

Bronze and  
White Turkeys.

Cornish  
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Indian Games...

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Fine Bucks and Does For Sale.

WINNERS at Pittsburg, Toronto, and New York the past season.  
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E. M. &amp; W. FERGUSON, Proprietors.

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### Single Comb Brown Leghorns.

I exhibited this season in N. J., Pa., and Ohio,  
21 birds and won nine 1sts, five 2ds, four 3ds, one  
4th, and one 5th; seven out of 21 scored 94-95.  
Eggs, \$1.50 per 15; \$2.50 per 30. Catalogue.

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LOOK UP OUR RECORD AT ALL THE BIG SHOWS.

At Mt. Gretna, Pa., 1896, we won on our Darks 2d Cock, 1st Cockerel, 1st and 2d Hens, 1st Pullet, 1st Pen. Gold special for best five Brahmas in the show, any variety. Look up our winnings at Newburg, N. Y., and Hagerstown, Md.

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From the best prize-winning strains in the country. Beautiful BLUE ANDALUSIANS that are winners wherever shown. We have bred nearly every known breed of fowls, and have settled on the two above varieties as being the best for every purpose. Write for list of prizes and prices. Chicks for sale after October 1st.

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For \$5, Colchis Farm of Farmer, N. Y., will sell 1 trio White Muscovy Ducks that are beauties, and they never cry

Quack! Quack! Quack!

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Eggs—  
\$1 per 13,  
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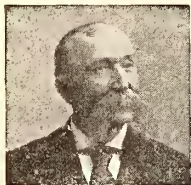
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in that cold snap" has been the verdict on many a luckless brood of chicks. The fault was in the brooder. If they had been bred in  
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they would have come through all right.  
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First-Prize Pen, Madison Square Garden, 1898,

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Will sell a limited number of eggs from these birds at \$5 per 15.

Also eggs from a very fine pen of females, headed by the 2d-prize cockerel (same show) at \$3 per 15.

## Silver Duckwing Leghorns,

(The buff-egg strain.) \$3 and \$5 per 15 eggs.

There are no finer birds of these two varieties in this country, and you will positively receive eggs from the birds you order.

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Enclose stamp for circular.

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Breeds Barred and White P. Rocks, S. C. White and Brown Leghorns, White Wyandottes, Light Brahmas, Bronze Turkeys, and Pekin Ducks, from the best strains. Write for illustrated circular and price list. Eggs for sale. No more stock until July 1st. Please mention The Feather.

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WHITE WYANDOTTES and BARRED P. ROCKS,

1 setting, \$2; 2 settings, \$3.75; 3 settings, \$5.

WHITE CRESTED BLACK and BUFF LACED POLISH,

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WHITE INDIAN GAMES.

Winners at Madison Square Garden, 1899. 1 setting, \$4; 2 settings, \$7.

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The necessary articles at low cost. The best Crushed Oyster Shells, 75c. per 100; 1 ton for \$6.50. ORR'S CLEAR GRIT always a winner, 100 lbs. 75c., 1 ton, \$7. Cut Clover, Clover Meal, Meat Meals, etc. Send for circular.

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## CHOICE STOCK. MOST NOTED STRAINS.

Barred and White P. Rocks, Sherwoods, Cornish Indians, White and Silver Laced Wyandottes, S. C. Buff Leghorns, Black Javas, and S. C. Black Minorcas. Fine as silk. Prize winners and matings scored from 91½ to 95. Few more birds for sale. Yards mated since January 10th, 1899. Poor hatches, honestly reported, duplicated free. Eggs, \$1.50 per 15; \$2.75 per 30; \$7 per 100.

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I breed BARRED (not speckled) P. ROCKS and LIGHT BRAHMAS EXCLUSIVELY, and have as good stock as time, money, and best breeders in this country can produce. Am now booking orders for eggs to be delivered when you say, at \$2 per 15; \$3 per 30; and a fair hatch guaranteed. A few good cockerels, with score card by McClave, cheap. All orders and correspondence given my personal and prompt attention. Visitors welcome every day except Sunday. "Remember the Sabbath day to keep it Holy." Satisfaction guaranteed or your money back. Good pen S. S. Hamburgs, with cards by McClave cheap to close out. Yours for better poultry.

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1st as Cock at Toronto International Show, 1899.

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Remember we are headquarters.

That our strain is the foundation of a large share of the leading breeders of to-day. We have a prize record equalled by few and excelled by none, a choice lot of birds for sale. Eggs from prize matings, \$4 per 13; \$7 per 26; \$9 per 39. Circular free.

Office of R. H. TULLIS, M. D.

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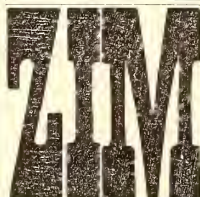
MR. J. H. THOMPSON, JR.,

DEAR SIR: I exhibited 6 birds at our late show hatched from the eggs purchased of you, they scored 93, 93, 92, 91½, 90½, 90½. All agreed with me that I did well, and that my display was a good advertisement for your stock. I enclose score cards and samples of feathers. Kindly advise me as to mating. Thanking you for fair dealing, I am,

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Offers you Eggs and Stock from Silver and Golden Sebrights, Black and White Cochins, Bearded and Plain White Polish, and Black R. Game Bantams. High-class S. C. Brown Leghorns, Buff Laced, W. C. Black, Golden, Silver, and White Polish. Eggs, \$3 per 13; except Bearded White Polish Bantams, \$10 per 13.

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English Beagle Hounds and Cocker Spaniels (Red and Black). All our Beagles are hunters. Many of them are prize winners. All our Cockers are prize winners or are bred from winners. 5 grand Beagle dogs, and 5 superb Cocker dogs at stud. Address,

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## Barred Plymouth Rocks.

## Pekin Ducks.

(Newman's.)

KINLOCH FARM, Cockeysville, Md.

Colony plan. Stock bred from two-year-olds, insuring size and vigor. Barred Rocks, \$1.50 each and upwards. Our Ducks are the equals of any ducks, \$1.50; drakes, \$2.

N. B.—Stock of higher feather merit matter of correspondence. Eggs, \$1 per setting.

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WYCKOFF'S  
White Leghorns

America's Business Hen,

Have been carefully bred and improved for the past 18 years regardless of expense, and on the strictest application of the true principles of Leghorn breeding with a result that fully justifies their acknowledgment everywhere as **The World's Greatest Laying Strain of S. C. White Leghorns**, combined with the highest degree of excellence in Standard Qualities, Size, Strength, and Vigor, and layers of large, pure white, perfectly shaped eggs that command the highest premiums in the finest city markets.

Hundreds of unsolicited testimonials recently received from customers in all parts of the country testify, not only to their superior laying qualities, but also to the many victories and high scores awarded them in the show-rooms.

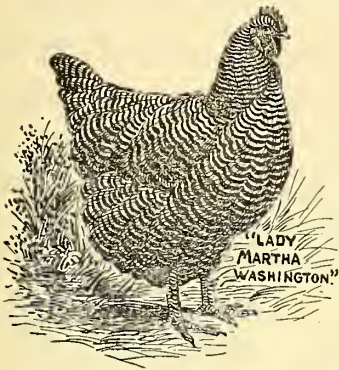
Good breeding stock in early cockerels and 1897-hatched hens yet for sale. Eggs for hatching from my choicest selections and matings only, the cream of over 1,200 carefully bred birds. No close inbreeding ever practised in my yards.

Eggs, \$2 per 15; \$3.75 per 30; \$5 per 45; \$10 per 100. Large illustrated and descriptive circular free

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"LADY MARTHA WASHINGTON."  
1st at Hagerstown, '96.  
1st at Washington, '97.

## Barred Plymouth Rock Eggs

I have mated 5 pens this year that please me better than any I have ever had. I retained all my best females for breeding and have 50 in my pens. Mr. Calvin Rineholt, a man experienced in feeding for eggs and raising chicks, a man who could drink, eat, and sleep with chickens, will spend his entire time in my yards raising young chicks. I feel sure I can furnish good eggs, fertile eggs. I will duplicate orders where eggs prove not to hatch well. Eggs from best two pens, \$3 per 13; \$5 per 26. Eggs from 3 other pens equally as good for practical purposes, \$2 per 13; \$3.50 per 26; and \$5 per 39. If you will favor me with your order I will try and please you. For list of winnings refer to December and January number of THE FEATHER. Incubator eggs, \$3 per 100.

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Plans for Brooders and Poultry Houses, 25c.

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for an incubator of any kind until you have given it a thorough trial. Some incubators were never intended to hatch chickens but are only made to sell.

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Large, vigorous birds that weighed January 10th 25 lbs. If you want show stock write me. Also Chester White Hogs. A fine lot of young and matured sows safe in pig. Send for folder and mention THE FEATHER.

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1st Prize Buff Leghorn Cock, at N. Y., '98.

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"Are Champions of the East," having defeated all who met me at the last New York show, in response to my recent challenge. Besides this I have won the best prize, 7 c., 1st on breeding-pen for the third consecutive time, besides many other 1st, 2d, and special prizes.

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(The Single Comb variety), have again won a great victory at New York. 1st on pen, 1st cock, 1st cockerel, and the American Leghorn Club Cup for best exhibit. Send for catalogue.

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IF YOU WANT to get in the Barred Rock game,

...BUY FROM RIDGELY.

They have won in 1898: Washington, 1st on hen; Madison Square Garden, 1st hen, 2d cock, and 5th pen; Hagerstown, 1st and 2d cocks, 1st pullet, and 1st, 2d, 3d, and 5th hens; Hamilton, Va., 1st on pullet; Coatesville, Pa., 1st cock, 2d hen, 1st pullet, and 2d pen; West Chester, Pa., 1st cock, 1st and 3d pullets, and 2d cockerel.

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From either cockerel or pullet matings, \$2.50 per 13.

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is thoroughly interwoven but has long horizontal wires, which classes it as

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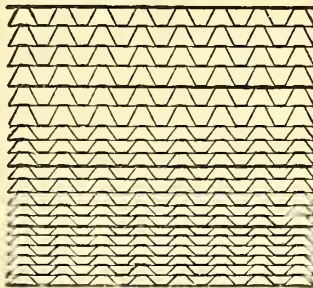
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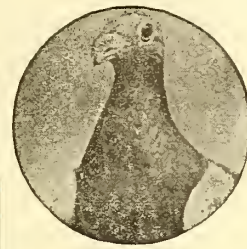
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**CABLED FIELD AND HOG FENCE** with or without lower cable barbed. All horizontal lines are cables.

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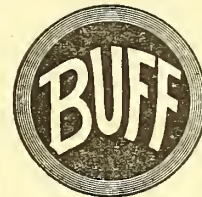
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The grandest lot of chicks we ever raised. If you want birds with tremendous reach, fine snake heads, long thin necks, low close tails, combined with brightness of color, and hardness of feather, we can supply you. Also grand massive **BUFF COCHINS**, brothers and sisters to our winners at Johnstown, Brockton, Keene, Fitchburg, Boston, and Brattleboro. Cornish Indian Games, Pit Games, and Game and Ornamental Bantams.

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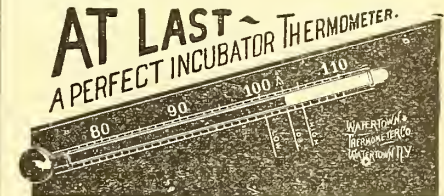


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They have won World's renowned reputation. Clean sweep at World's Fair, and have continued to lead in this country and England. N. Y., '95, '96, and '98. Winning the Am. Buff P. Rock Club's Silver Cup for Best Collection at N. Y. '98. Eggs, \$5 per 13; \$8 per 26; \$10 per 39.

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The incline of the tube carries the mercury back into the bulb at lower temperatures. No erroneous readings. Bulb rests on two eggs, insuring the correct temperature. Every tube is seasoned. Costs no more than an inferior one. By mail—one, 75c., three, \$1.50.

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A reliable, fire-proof Hatcher, so ventilated as to maintain nature's moisture of the egg.

Plans for indoor or outdoor brooder free with each machine. Send for catalogue.

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## BARRED PLYMOUTH ROCKS...

Prize winners at Madison Square Garden, Rochester, and Syracuse.

100 Choice Cockerels for Sale.

Eggs from twenty grand yards. Send for circular and list of matings for '99.

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## S. C. WHITE LEGHORNS

Not quite "16 to 1," but sufficient to sustain our long-standing claim that our

BEST EGG-PRODUCING VARIETY KNOWN.  
LARGE WHITE EGGS.

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— STILL LEAD ALL OTHER STRAINS! —

At New York State Fair, September, 1898, EIGHT of the ten FIRST PRIZES offered on our varieties were awarded to **KNAPP BROS., FABIUS, N. Y.**, 16 years before the public and at 37 of the leading shows, with HIGHEST HONORS every time. We now have nearly 1,000 CHOICE BREEDERS and EARLY-HATCHED CHICKS. If you want fall or winter show birds and SURE TESTED BREEDING STOCK, at reasonable prices, LET US HEAR FROM YOU SOON.

Stamp for catalogue giving highest prize record ever won by any breeder of any variety.

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### White Wyandottes,

Typical shape, white as snow.

### Barred Plymouth Rocks,

Typical shape, clean, sharp, deep barring.

### Partridge Cochins,

Heavy feathering, correct color, and penciling.

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Typical shape and penciled tails.

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Weighing from 9 to 12 lbs. each.

Our birds have won at New York, Boston, Washington, D. C., Hagerstown, and other shows. At Washington, D. C., January 10-14, 1899, our Barred Rocks won 1st and 3d hens, 2d and 4th pullets, 3d and 4th pens; White Wyandottes won in every class. Eggs from prize matings, \$3 per 13; \$5 per 26. Duck eggs, \$2 per 11; \$8 per 100. Satisfaction guaranteed. Stock for sale.

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\$1 to \$1.50 each gets some fine bargains in Chickens and Ducks. Turkeys, \$5 a pair. Toulouse Geese, \$2.50. Also Sheep, Hogs, Beagle Hounds, Maltese Cats, cheap.

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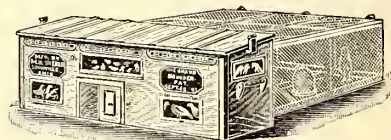
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Is the Originator and Breeder  
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Montauk Strain of

## Barred Plymouth Rocks.



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of prize winning poultry for 1899. The finest poultry book out. A perfect guide to poultry raisers. Calendar for '99 on cover. Gives price of eggs and stock from the very best strains. It shows the finest chickens and describes them all. Fifty different varieties. Everybody wants this poultry book. Send six cents in stamps.

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Our buffs are noted for their great size and heavy feathering. At Hagerstown, '96, '97, and '98 we won more first and second prizes than any two competitors. At Hagerstown, '98, we won 1st and 4th on cockerels, 1st and 4th on pullets, 1st, 2d, and 3d on hens, and 2d on pen. Eggs from these grand birds \$3 per 13; \$5 per 26.

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Were awarded our Barred and White P. Rocks, White Wyandottes, S. C. Brown Leghorns, Rhode Island Reds, Black Javas, and Minorcas. Some Boston winners. Eggs \$1.50 per 15; \$3 per 30; \$5 per 60; \$8 per 100. Circular free.

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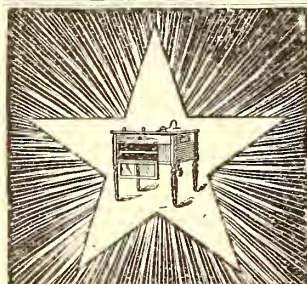
## Buff Leghorns Exclusively.

Lister Kay's strain—no comment necessary.  
Motto: Highest Score, Prolific Layers.

—EGGS, \$1.50 per 15.—

If you want of the best order from

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OUR FREE CATALOGUE tells all about this wonderful Incubator.  
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## PIONEER CLOVER MEAL

### ..The Shell of an Egg..

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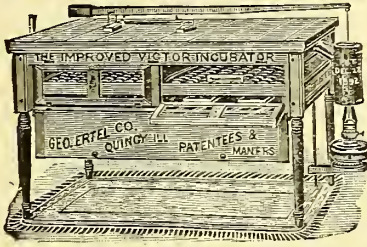
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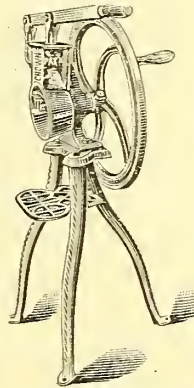
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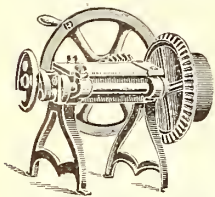
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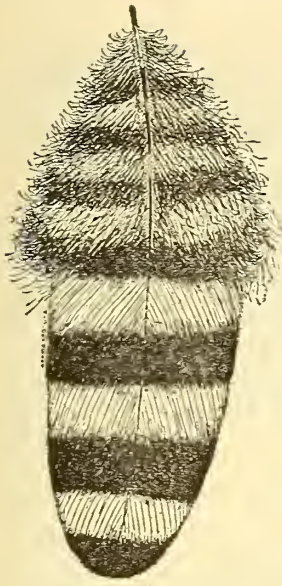
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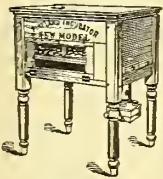
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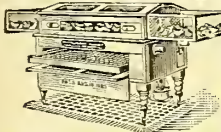
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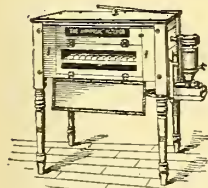
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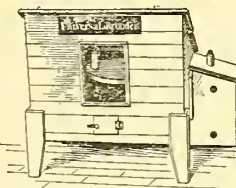
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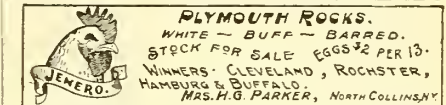
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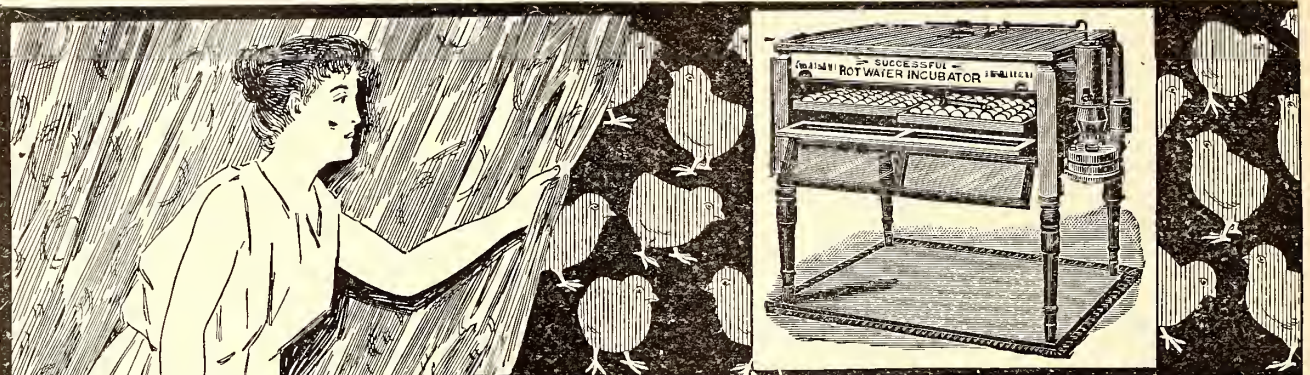
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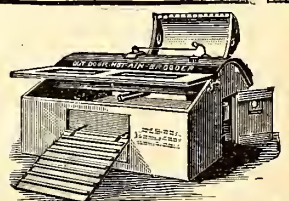
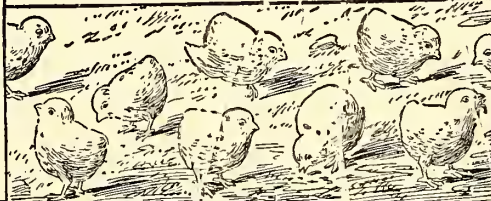
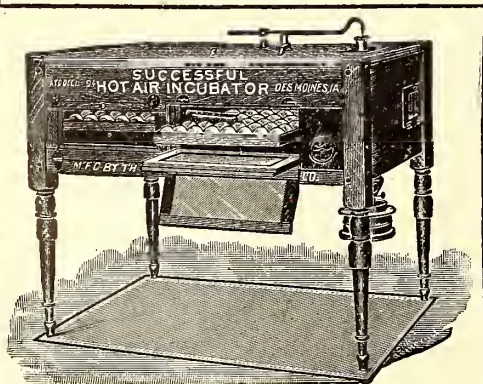
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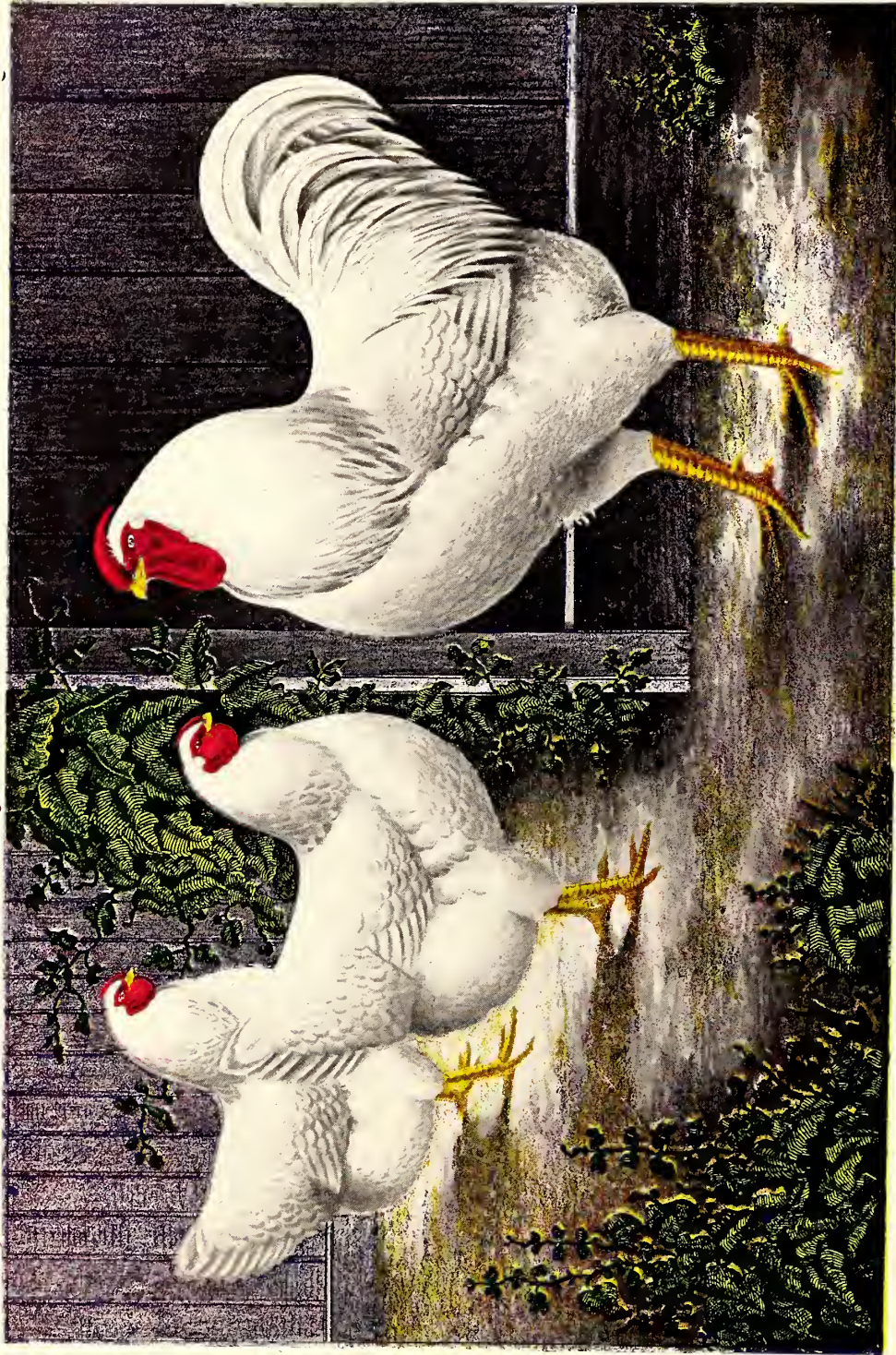
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SUPPLEMENT TO THE FEATHER,  
MARCH, 1899.

## WHITE WYANDOTTES.

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VOL. IV. No. 6.

WASHINGTON, D. C., MARCH, 1899.

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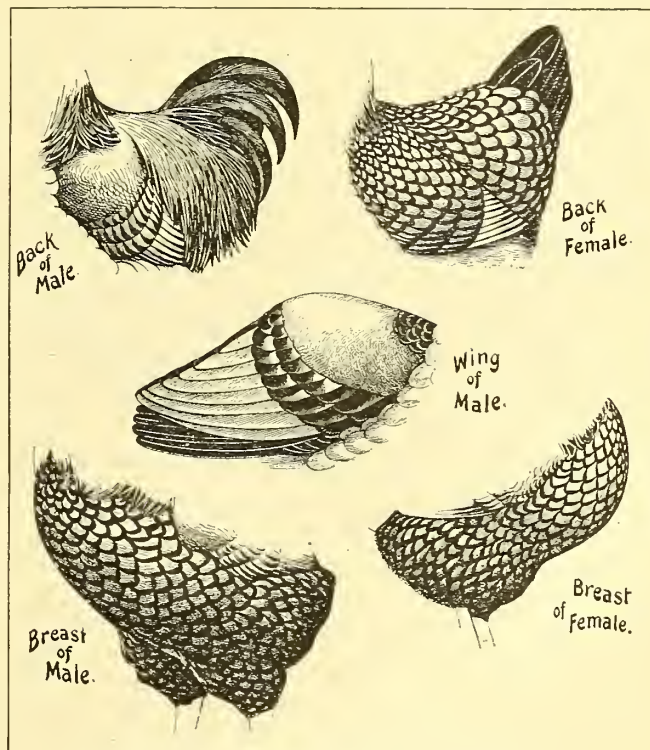
BY ELLSWORTH.

**W**YANDOTTE sounds well. The name is, as well as their origin, distinctly American. As an American creation we are proud of their qualities, and unhesitatingly place them foremost as a beautiful and useful member of the feathered race. Their points of excellence warranted their popularity from the beginning, and there is no relax of sentiment or enthusiasm for them at the present time. Breeders claim for them to-day the same qualities they did in the days and years gone by. Their boom has been continual, and their praises will always be sung by those who have been impressed with their beauty and their profitable qualities. No pretense will be made to give their history in this article. Suffice it to say that in their little more than quarter-century's history they have developed from comparatively nothing to one of the most popular birds in America.

In breeding Wyandottes, one must first establish the exact shape and symmetry characteristic of the breed. The combined influences of description and art are necessary to portray the image as graced in nature. By comparison with other poultry, the Wyandotte is of medium size, with a rather short neck, short legs, short and broad head, surmounted with a low, flat, rose comb. They are chunky, nicely-made and compactly-built fowls, weighing eight and one-half pounds for cocks, six and one-half for hens, seven and one-half pounds for cockerels, and five and one-half for pullets. Their size, shape, and early-maturing qualities make them much sought after birds for practical purposes. Their flesh is sweet, juicy, and tender, making them general favorites for broilers and roasters. As layers they compare exceedingly well with the best, and give good returns in winter laying.

The head of a Wyandotte cock is short and broad across the crown; beak is well curved; eye is bright bay; face, bright red. The comb is rose, carried low and firm upon the head; the top is oval in shape, terminating in a spike at the rear, and the whole curving

slightly and in conformity to the shape of the skull. The surface of comb is covered evenly with small points or corrugations, and is of a bright red. The spike of the comb is not so prominent as in a Hamburg, and curves slightly downward, while that of the Hamburg curves upward. A comb should not have uneven corrugations, deep holes or hollows, or an absence of points, by being in parts or in whole. The wattles of a Wyandotte cock are of medium length, and fine in texture. They should not be long and pendulous, as in the Leghorn cock, but well rounded and of a shortish appearance. Ear-lobes should be well developed

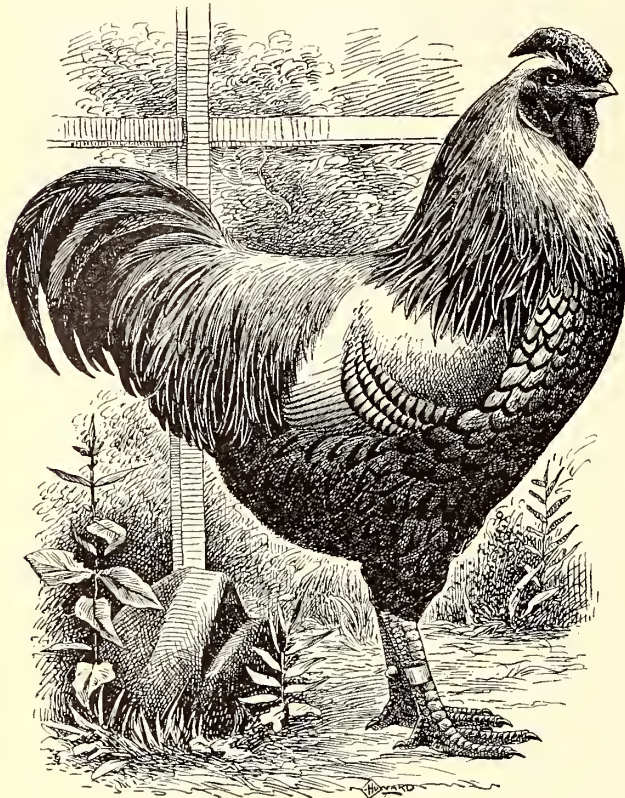


SECTIONAL PARTS OF SILVER WYANDOTTES.

and smooth. The wattles and ear-lobes are bright red. White in the ear-lobes is a defect, and full white ear-lobes will disqualify the bird.

One of the prettiest parts of the bird is its neck; this is much thought of and prized very highly. The neck is short and well arched, with full and abundant plumage. A long neck and scanty feathering are to be avoided. The back is short and broad at the shoulders





SILVER WYANDOTTE COCK.

and has a massive appearance. A good back is a strong point in the cock. It adds to his neck and symmetry and sets off the neck and tail to advantage. The saddle, which begins between the middle of the shoulders and extends to the tail, should be broad and rise with a concave sweep to the tail. The saddle-feathering should be abundant and full. The breast should be broad with a straight breast-bone. The broad and well-developed breast is a particular feature of the Wyandotte, making it of much value as a table fowl. Serious defects of the breast are narrowness, lack of fullness, and crooked breast-bones. The body should be short and well rounded—not elongated as in the Brahma cock—but deep and full with a breadth at the sides and front. The fluff is full feathered and well rounded in appearance, to be in proportion and harmony with the body.

The wing is medium in size, nicely folded, and carried reasonably high. The tail is well spread at the base and is well developed; sickles of medium length and gracefully curving over the tail, with slightly projecting ends. The sickle-feathers should not be too long nor the coverts too scant for a standard cock; neither should the tail be carried too low, or too high, so as to appear squirrel-tailed, but should be carried in an even, upright position which balances the bird nicely when standing erect. A wry tail disqualifies the bird. The thighs should be stout and short, being well spread in appearance and covered with soft feathers; shanks are short and stout, free from all feathering or stubs of feathers, and bright yellow; the toes are of the same color as the shanks, bright yellow, and are well spread. The thighs and shanks should not be long nor slender, but short and stout in proportion to the size of the bird. The legs should also be straight without any tendency to angularness at the hock joints, or any approach to being curved inward, so as to give the bird a knock-kneed appearance. The shanks and toes should also be free from black spots

or scales and any roughness other than is caused by the formation of an even and well-made shank.

The head of a Wyandotte hen is short, with a broad crown. The beak is stout at base. Eyes are a bright bay. The comb is the same as that of the cock, but smaller, and evenly covered with small points or corrugations. The wattles are short and of a rounded appearance, which differs from those of the male, the latter being medium in length and pendant. This should be considered in breeding, so as to give the bird its true head and jaunty appearance. The combs and ear-lobes are bright red.

The neck of hen is similar to that of cock, but is shorter and more compactly built. The back is broad and slightly cushioned in a good specimen; broad at the shoulders, giving a flat but not a narrow appearance.

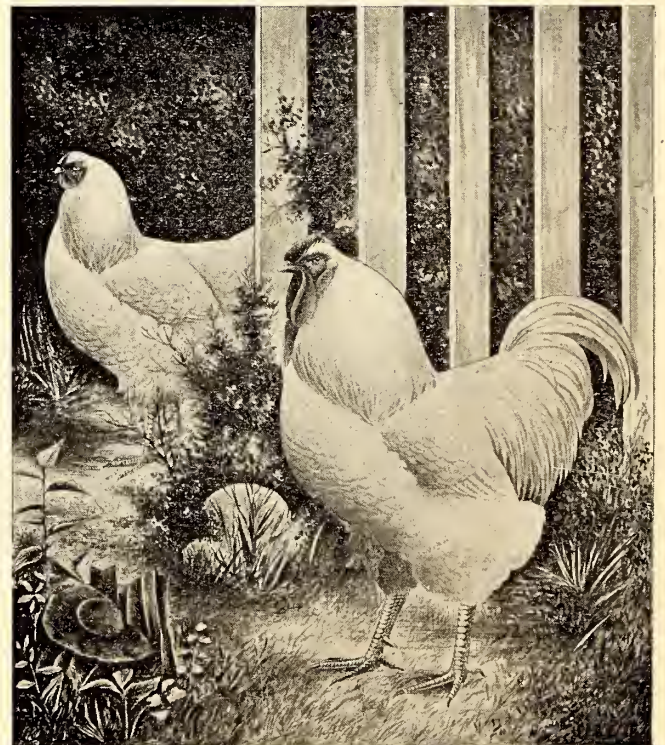
The body is short and well rounded. The well-rounded fluff is full-feathered. Full and rounded breasts are to be desired at all times.

The wings of hens are medium sized and carried well up on the body. The worst defect of wing is irregular folding; the lowest feathers should rest against the side naturally.

The tail is well developed and carried in a fairly upright position, but free from all semblance to a squirrel tail, and well spread at the base. The tail should not be too small or held too closely together, but should balance evenly.

#### THE WHITE WYANDOTTE.

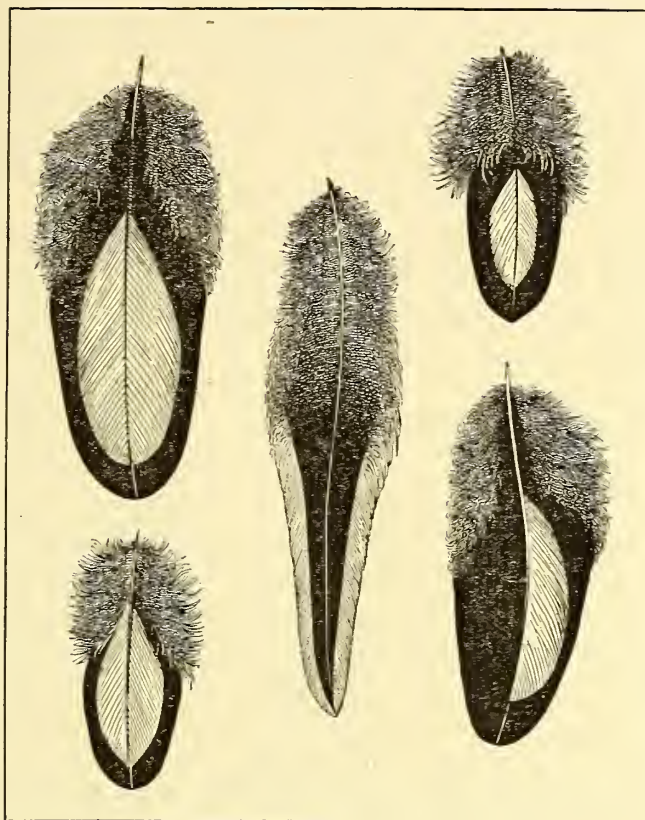
The White Wyandotte has been before the public about fourteen years, they having originated as sports from the Silvers. They have gained rapidly in public favor, both for eggs and market as well as a fancier's fowl.



WHITE WYANDOTTES.

At the late Boston show there were twenty-two pens of Whites against four of Silvers, two of Golden,





FEATHERS OF SILVER WYANDOTTES.

two of Blacks, and eight of Buffs. More White Wyandottes by six pens than all the other varieties put together. There were only nine pens of Barred Plymouth Rocks and seven of White Plymouth Rocks. Figures don't lie. These facts go to prove which fowl is the most popular.

As an egg fowl I believe they will lay more money's worth of eggs in a year than either the Leghorn or the Minorca. I do not say more eggs, but more money's worth, for they lay in cold weather when eggs are high. Leghorns or Minorcas can not stand the cold weather. I have kept both of the latter breeds, good strains too, and know whereof I speak. As a dressed fowl there are no dark pin-feathers to mar the beauty of the yellow skin which our American people so much covet. In this respect the Whites also beat their sister varieties. At one of the late shows where there was a large exhibition of dressed poultry, I saw a man who represented a large commission house, going around with a knife picking out the dark pin-feathers from some Plymouth Rock broilers. They spoiled the looks of the whole lot.

I believe the White Wyandotte stands par excellence and has come to stay. They are neither too large nor too small. I put some eggs out to a farmer last spring to hatch for me. The same party had Plymouth Rocks, Brahmas, Leghorns, and Minorcas. The seventy-five Wyandottes which he raised for me weighed more at two months of age than the Brahmas did at three months. They all received the same care and feed, having cracked corn until they were large enough to eat whole corn. They also had free range. The way those chickens grew was a draw card in favor of the Wyandottes. It is surprising how many letters we get from breeders of other varieties inquiring about stock and eggs, who say they are going to take up the White Wyandotte. They are improving each year. The Wyandotte of a few years ago would stand no

show with the Wyandotte of to-day. They have been bred so that pens have averaged from 160 to 212 eggs a year for each hen. While some are breeding for dark brown eggs I do not advise throwing out an extra good hen even if the egg is a lighter shade. It must be remembered that where they are bred for very brown eggs that the fowls are a little more inclined to be creamy and not white as the Standard calls for; but to those who breed only for market this does not make so much difference; but for some reason people want a male bird as near to the Standard requirement as they can get, even if their birds never see a show-room. I receive scores of letters from persons saying they don't care for an exhibition bird, simply a good breeder. Then they go on to describe such as they want which would be a bird that would win in any show-room.

Now a few points to all who may read this article, whether they are breeders of White Wyandottes or any other kind of poultry. Who can deny the fact that the White Wyandotte is heavily feathered, with a small comb so that the cold has no effect on them to hinder their laying in the coldest weather? They are plump, full breasted, and with their yellow skin and white pin-feathers make the ideal broiler, roaster, or market fowl. They are fine boned with plenty of meat, and will not eat nearly as much as the Plymouth Rock and only about one-half as much as the Brahma. They are docile and do well in confinement, are good foragers when they have free range (which the chickens should have.) Their white plumage on a green lawn makes a picture that no artist's brush can ever imitate. Taking them as a whole they are a fowl of beauty and a joy forever.—J. E. WHITE.

### THE BUFF WANDOTTE.

The degree of perfection reached by this breed, as shown at the recent large shows, has been a surprise to all. It is impossible to conceive a handsomer or more striking variety than the Buff Wyandottes—their fine buff color, bright red combs, yellow legs, tasteful and comely forms. They have only been known for the past few years, but each year the demand for them increases, showing that their good qualities are not illusions, but facts, which are appreciated by the public.

The demand is steadily increasing for solid-colored birds having yellow skin and legs and fine-flavored meat in connection with superior laying qualities. My experience with the Buff Wyandottes has been that they are great egg machines, and I do not believe a man can ask for more eggs than the Buff Wyandottes produce. They lay a good-sized egg. There is one advantage this breed has, and that is, when you dress one you do not have those black pin-feathers to contend with. They dress up nicely, and for broilers they are unequalled. Their bright yellow skin and juicy and delicate meat place them in a front rank as a table fowl. In my opinion I think the Buff Wyandottes have a great future.—W. C. KLEE.

### Condiments.

Condiments, egg foods, and condition powders are not intended for healthy fowls, but as medicines for those out of condition. Although they should be used with caution, yet, by judicious use when necessary, they may be made to be of great service. They are not likely to be needed if the birds are given proper care.



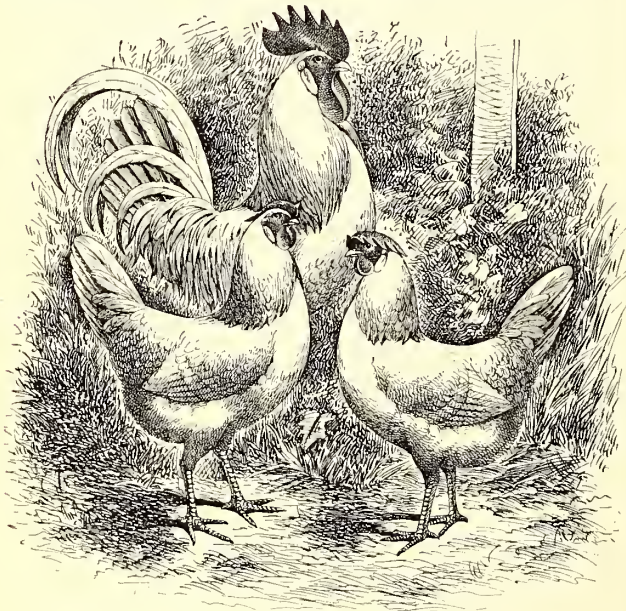
## POULTRY ON THE FARM.

Thoroughbreds the Fowls for the Farmer—The Kind to Raise—Poultry and Fruit on the Farm—Breeding, Feeding and Caring for a Flock on the Farm.

### The Profits in Poultry.

BY H. E. VAN DEMAN.

**S**OME farmers may object to keeping thoroughbred chickens, claiming that it may do for some fancy people who have hifalutin notions and plenty of time and money to squander. My own experience as a farmer—and not a fancy one either—does not lead me to any such conclusion. About twenty years ago, when living in Kansas, soon after I was married and had some one to help me rear chicks (and children, too!), we got some Partridge Cochins. They were great, stately birds, and made broilers, and bakers, too, that could not be excelled, but they laid few eggs, and tender-shelled ones at that. The chicks were delicate, and we lost many of them without sufficient reason. We



TRIO OF WHITE LEGHORNS.

stopped breeding them, and got the famous Autocrat Strain of Light Brahmas, which proved to be a wonderful advance over the common mixed chickens, and the Cochins, too. It is a good breed for the farmer who wants both broilers and eggs for home use chiefly, as most of them do. We found no difficulty about their being lazy, as some lay to their charge, for they ranged about the fields, sometimes getting a quarter of a mile from the house. The chicks were hardy and easy to rear and grew up like weeds in a hog lot. The hens laid fairly well, and the eggs were of large size, indeed, they were too large to sell or trade profitably at the country stores for the same as common eggs. But, with our farmer way of feeding, they got too fat. We let them have too much corn. They often had all and more than they could eat about the cribs and cattle and bog lots, but they did well, and we liked them, and might be keeping Brahmas yet, if I had not been called to serve Uncle Sam at Washington, D. C., and, therefore, left the farm for nearly

eight years. Even then we kept chickens, for we were not used to having spoiled city eggs in the kitchen, which was not only annoying but expensive. Besides, we liked to see chickens around, to hear them crow in the morning and cackle when laying. It seemed homelike.

So we got a few Barred Plymouth Rocks and kept them in the back yard. They proved to be about like the Light Brahmas. We generally had all the eggs we wanted to use, and our neighbors kept begging us for all we had to spare, and were willing to pay more than market prices for them. We utilized all our table scraps, let them pick the grass in the back yard and bought butcher scraps and mixed cow-feed to make up a fairly well-balanced ration for the hens. This little investment of money and time was very profitable, notwithstanding the "two-legged coons" got nine of our best pullets and one big cockerel one night.

When we left Washington City and began work on a nice little farm in Virginia, we took our Plymouth Rock stock along and bought up some mixed chickens to increase the flock all at once in August, 1893. We worked along with these all right, having all the eggs and chickens we wanted, except for a little time in winter, just as most farmers have. We sold our surplus eggs to a boarding-house most of the time, where we got about a cent more per dozen for guaranteeing them to be fresh. We sometimes had to sell some chickens, because we had more than we could use. I knew there was little profit in this, because we had to buy at a high price most of the grain they ate. I also knew we were not getting enough for guaranteed eggs, but it seemed the best we could do.

The second winter of this haphazard poultry keeping I was talking fruit culture at the New Jersey Farmer's Institutes, and heard Mr. C. E. Chapman, of New York, talking of the poultry business, who was engaged with myself and others in the lecture work. He talked eggs all the time as the money side of the business, and with such reasonableness that I became thoroughly convinced of the commercial folly of the old-farmer fashion of keeping poultry. Not that it does not pay something in nearly all cases, but very little in comparison with what it should and might easily be made to pay. It was like the Babcock Test to the farmer's cow that does not pay her board. I felt sure that a dozen eggs, which contain almost as much water as the same weight of milk, and brought no more than fifteen cents, were more profitably sold off the farm than the same weight of live chicken, which, on the average, would bring us more pound for pound. Hence I acted on the conviction at once, and started out to keep a breed of chickens that would produce the most eggs of marketable size, and feed them to that end. The Leghorn was chosen, and as I had a chance to get a start with the Single Combed Brown, I took that particular breed. The first year we were unfortunate with both eggs and chicks, but in two years we had a nice flock, mostly thoroughbreds, with some good grades from our other hens. We fed for eggs and got them. We have had them in plenty ever since, at all seasons of the year. Our henhouses are nothing new, nor are they very good. As the climate here is not severe, we have not made double walls nor ceiled overhead, as should be done where it gets cold. We kept up the flock by getting cocks of the very best strains; sometimes by exchange and sometimes by purchase. It pays to get the very best bred and thriftiest cocks that can be had. One that is timid or easily conquered by others is not



fit for use. It is better to cut off his head. Get as big and strong a fellow as is possible. We now have as nice a flock of Brown Leghorns as I have seen, if we did build it up ourselves within the last four years. We try to maintain the characteristic points of the breed as laid down in the American Standard of Perfection, but the number and size of the eggs are the main points.

I had known considerable of the White Leghorns for many years, and last spring bought 200 eggs from a good breeder and now have a small flock of as big, thrifty, and well-bred pullets and cockerels of that breed as can be found anywhere; for there was no better flock in existence, so far as I know, from which to get eggs, and very few as good. The hens are very large and the eggs too.

As I have said before, our conditions are such as ordinary farmers have, for we let the chickens and chicks run at large over a good grassy range, which is just what they need. A month before time to set eggs we select about ten or twelve of our best Brown Leghorn hens and the best cock, and put them in a roomy pen, where there is no possibility of them getting out. I covered an unused pigpen with wire netting this year. We always feed them well, and have had almost every egg to hatch out of hundreds. Another cock is always held in reserve in another pen, to substitute in case of death or lack of vigor.

We keep no cocks with the hens running outside in breeding season, and those persons who have bothered us by wanting to exchange eggs, that they might get the stock for nothing, are about discouraged from trying longer, since they have learned that all our eggs are infertile except those from the breeding-pen, and that we ask a living price for them. This year we have made up two larger breeding-pens, one each of the choicest Brown and White Leghorns. I have already secured cocks of both breeds from the best strains in existence, but of unrelated blood to our own.

This season we are using incubators and brooders. We have kept some Plymouth Rocks and mixed hens to do the hatching and rearing of chicks. We buy eggs from the neighbors from which to get common chicks to keep up this part of the flock and some to eat. Some of the less typical Leghorn cockerels are also killed for the table; and no one need want a better chicken to fry, broil, bake, or stew. Nor is there a cheaper or easier breed to rear. The chicks feather out very young and grow almost as fast as any, up to a pound or so in weight. Then the Plymouth Rock, Light Brahma, or other big breeds will outgrow them. But the little fellows are as proud as peacocks, have great red combs almost before you know it, and crow when they are not big enough to be heard very far. The pullets get big red combs too, and go about singing like old hens at from five to six months old. We have some now laying that are less than six months of age.

A very good way for the common farmer to do in order to keep any breed pure, and one that I have followed from my first keeping of thoroughbred poultry, is to have but one breed of cocks. If it is desirable to have other breeds or mongrels, all may be allowed to run together with this precaution and if special care is also taken to allow no mingling with the neighbors' fowls. The eggs from the thoroughbred hens may be distinguished if they are quite different in color from the others; but if there are grades of the same breed laying, this can not be depended upon. The best way is to make up a breeding-pen, even if no other kind is kept, so as to have eggs for hatching from the pick of the flock.

It is useless to expect hens to lay well if they are not fed properly. I have talked to farmers about this matter who were not getting many eggs, and have been told—"My hens are well fed, they have all the corn they can eat." That will not do. They can make the fatty part, which is the yolk of the egg, out of corn, but not much of the white. Wheat, oats, and barley furnish the albuminous material in them, and we feed them along with corn and sometimes buckwheat, too. We always feed a mixed mess of moistened wheat bran and middlings, ground oats, cornmeal, and prepared poultry meat. We have used two brands of the latter and found both excellent for egg production. The table scraps and dish water are mixed in, and in winter the mess is always warmed. We have a little bone mill, which is too hard to run with profit, except to grind oyster and clam shells, which we have in abundance and always keep before the hen. Plenty of coarse sand and clean water are also furnished. A mixed flock can not be properly fed, because of their different needs. What will fatten a Plymouth Rock will only put a Leghorn in good laying order. This is one of the troubles we have had.

Having kept a careful record of all feed bought and eggs sold, it may be well to give the result from January 1st to September 1st, 1898. After estimating the value of food on hand, the cost of that consumed by the entire flock of sixty hens, two cocks, and all the growing chicks, is \$34.41. The net amount received for eggs is \$101.20. These eggs were not sold at any fancy prices, but were shipped to Newark, N. J., and New York City, and were subject to all the usual expenses of commission merchants. They were guaranteed to be fresh, but in summer-time it took two weeks to collect enough for a crate, owing to fewer eggs being laid than in spring. From the sixty hens we have never got more than fifty-five eggs in one day nor less than twenty-three since January 1st, last year. All small eggs were kept at home and every speck of dirt was washed off. We got only a cent or two per dozen over highest quoted market price for their being clean and not a spoiled one among them. This gave us a net profit of \$66.89, which is over \$1 per hen in eight months, besides certain extra burdens which will be mentioned, and the best market season yet to come before the end of the year. The hens are in good healthy condition now, except those that fatten too much on the diet given, and are laying from twenty-five to thirty-five eggs per day right through the molting season. There will be a lot more pullets to add their eggs to the pile before the year is up.

It must be remembered that we have about twenty mixed and five Plymouth Rock hens in the lot that had to do the hatching and rearing of all the chicks, which reduced the egg-laying flock to less than forty sometimes. We set fully 300 of our own eggs, gave some away, ate all the eggs and young chickens we have wanted up to date, have had bad luck in rearing the chicks and, of course, lost all the food fed those that died. The eggs sold have also paid for all the food consumed by the young flock of seventy-five pullets and twenty-three cockerels now on hand. The eggs sold for hatching and the cockerels for breeding, which are few, have been left out of the account. The eggs and chickens eaten have perhaps paid for our labor.

This is no fancy sketch, but a plain statement of what we did under very ordinary conditions. The same can be done by any one who will use good judgment and is willing to work. My son has been away in New York for two years trying to learn something about poultry keeping by working on some of the poultry







calculations can be made hereafter in studying the composition and effects of various rations. Heretofore there have been no data accessible showing the amount of dry matter and the various chemical constituents in the food required by birds of different weights. There have been brought together in this table the results of two series of experiments made with from 12 to 25 birds in a lot, and extending over a period of three months. This is sufficient to permit very valuable conclusions, and although other trials will doubtless show more or less variations according to the composition of the rations and the changes of surrounding conditions, these can hardly be sufficient to materially affect the results which now appear.

In any serious study of the subject of poultry feeding it is first of all necessary to ascertain about how much food of known composition is required by different classes of birds. It is not so much the total quantity of food eaten that we need to know as it is the water-free food, and particularly the water-free food per pound live weight. All this is shown in the table, as well as the protein, carbohydrates and fats, and the nutritive ratio. A very slight inspection of the table shows how much better idea we can obtain from a consideration of the water-free food than of that in a natural condition. In these rations there was a considerable and a variable amount of skim milk as one of the constituents, and, hence, there is a great difference between the total food and the water-free food. These chicks, also, had some green food, of which no account was made.

In the brief study of the food of laying hens, it was shown that while the larger birds eat more than the smaller ones, they do not require as much per pound live weight. This principle is demonstrated even more clearly in the experiments with young chickens. In the first stage of growth, when averaging only one-tenth of a pound in weight, the chickens took from 3.03 ozs. to 3.33 ozs. of water-free food per pound of live weight per day. In the last period given, when they weighed 2.6 lbs. and 2.9 lbs., they took from .94 ozs. to 1 oz. of such food per day and per pound of live weight. This is a very remarkable difference, but as the change was gradual and fairly uniform during the intermediate periods, we must accept this as a normal variation. We have already seen that this diminution of the food required per pound live weight continues until, with the largest hens, it reaches the comparatively small figure of .45 ozs. to .55 ozs., or about one-sixth that for the smallest chickens.

It is interesting to note in this connection that the feeding standards for cattle and horses allow from .32 ozs. to .48 ozs. of dry matter per day and per pound live weight, so that while there is a somewhat further reduction with these large animals, it does not vary so much from that required with the largest fowls as might be anticipated.

While all the columns of this table will be found valuable, our lesson for the present is found in the two columns showing the weight of the birds and the quantity of food taken per day and per pound live weight. The deeper lessons, those allied to the variations in the composition of the rations and the effect of these variations upon the growth, may be taken up after the elementary facts and principles have been made plain.

#### He's Happy.

THE FEATHER is as fine as silk. The January number was a daisy. I am a Light Brahma crank, and you know how that Light Brahma picture made me feel. It was framed the same day it reached me.—H. C. SCHWAB, Waynesboro, Va.

## Roup—Two Views of It.

*Editor The Feather:*

I saw in January number of THE FEATHER several articles on roup. I think I can add a little of special value to them from my own experience.

As you will notice in my small write-up by the Editor, I have been at the poultry business for fifteen years; and the very first year I had roup. It commenced among a coop of Silver Wyandottes, and spread like fire among over three hundred I then had; and many of the pullets had just started to lay. This was in October.

I see our good friend Mr. Hege thinks mild roup not contagious. Don't you try it on, mind that. Let me explain when it seems not contagious. I will lead up to the condition by telling what I did to the flock. I put coppers in the drinking vessels for a disinfectant, and red pepper in the feed, and in two weeks nearly all the mild cases were well, and I then took out the weak ones and any that kept cropping out during the winter.

Now, a flock like that is largely immune. You can take almost any one and put it with cold or roup and it will not be affected. I find the colds come on approach of winter; and by December or January 1st you will have but little trouble if you handle the birds right. But put a fowl that is running at the nostrils in a flock that never had it, and see in two weeks if it is not contagious.

There is another vital point I want to combat. That is this: J. Campbell, of Elizabeth, Pa., writing in December number of one of the journals, says any fowl that had roup in any form was totally unfit for breeding, and the only course to rid your place of it is to kill every fowl that shows the least sign of it. I must deny that intoto, with this explanation: A fowl that is serofulous or a weak one is no good for breeding, but any bird cured is just as good as one that never had it. Mr. Campbell is a man of ability, as all who know him know, and I like to follow him in his experiments, and he writes truth, but in this I think he has been led astray by some conditions which he forgot or overlooked. Let me ask these questions. First he says, "And it can be fully proven, roup, so called, in any form is highly contagious." Now, do you, or anybody, know a disease that is so very contagious to be hereditary in man? Does any person say because I had grippe my child, unborn perhaps two years, would have it? Or if I had smallpox, the child would have it? Or typhoid fever, or any such disease? We all know they can not follow. That is proof enough, but I had a Single Comb Brown cockerel two years ago. He was sired by my first cock at New York and was fully better than his sire. I was depending on him to win at New York, but in October he had the roup. I had taken him to a friend's farm when young. He got worse, and by January he was a walking skeleton. Big chunks of matter came out of his wattles. But by March 1st he seemed well. I brought him home and put him in a small pen, 12 x 12 feet, to one hen, as people had said the offspring of such a bird would be roup. Well, I set about three settings, and they hatched well, and stronger Leghorns I never raised. Not one to this day has had the roup. Two of his pullets won at Washington. One won first at West Chester, and also won at New York City. One died of some bowel trouble. I had the most of the daughters up to this fall. I sold one, and the rest are fine show hens. The hen I mated him to was a show



hen of wonderful size and shape, and I got show females instead of males. Now, last season those females mated to a light cockerel threw some wonderfully fine-colored males. The cockerel has always had vertigo since he was so sick, but not a sign of any disease in any of them but the one.

Then again for eight years I killed every chick or bird that showed any sign of roup, and was sure I bred from only those that never had it, but it came just the same. The trouble is, it is in the ground, and you can hardly disinfect it out. But three years ago, or nearly four now, I got ahead of it with a condition powder. Keep your chicks from crowding in the coops in the fall and also in their houses and feed a condition powder having iron in it and the roup will not amount to much in your flock. The position I have taken I can sustain by a bookful of evidence. I am not concluding from one trial. If you breed from a hen or cock while they still have the disease it will be transmitted, but not when it is out of the system. But I have seen stock that were running at the nostrils, even the cockerel, and their eggs set, a lot in an incubator, for broilers. I thought, now surely they will all die, but behold! they never showed a sign of it, and some were kept for breeders. But it is unsafe to run such risks, for at times they will hatch with swelled eyes from such stock.—W. W. KULP.

*Editor The Feather:*

I was very much interested in an article in your January issue on roup from the pen of Mr. F. E. Hege, of N. C. Experiment Station, and also an article on colds by Mr. Henry Trafford in same paper.

I have had considerable experience along these lines and write to endorse what Mr. Hege says in regard to roup not being contagious. Am sorry Mr. Trafford failed to describe the disease he calls "roup" for his article is very emphatic in saying that roup comes by contagion and that colds do not develop into roup, as many claim they do. Possibly I may never have had to contend with roup, but if swelled heads with eyes closed and sometimes bursting-out nostrils closed up, or, if open, running a very offensive-smelling matter which the fowl is frequently rubbing off on sides of body, throat sometimes nearly closed up with canker and slime and the fowl hardly able to get its breath is not roup, I am at a loss to know what roup is, and don't want any practical knowledge of it.

I have had fowls with all the above symptoms, and yet I can truthfully say I don't believe roup (if the above is roup) is contagious. Like Mr. Hege I have put a well fowl in same coop with birds badly affected as above, and after remaining for a week or two, eating and drinking from same vessels as did the sick ones, it never contracted either cold or roup. I never put up a chicken affected with cold or roup except for convenience in getting hold of them to administer a remedy. I differ very much from Mr. Trafford where he says he prefers lice to roup. Roup does not generally affect fowls every month in the year, as lice do, and, if taken in time, no poultry ailment so easily yields to treatment.

For a number of years I have been using kerosene oil and spirits of turpentine, about two parts of the former to one of the latter. This is used by injecting it up the nostrils and saturating the head with it. When the fowl is hoarse or breathing hard a few drops down its throat gives almost instant relief. When roup assumes an eruptive form, or is complicated with sore head, I anoint head and face with an ointment made of

axle grease and calomel, or sometimes I use Mustang Liniment successfully. For clearing up the eyes and reducing fever I use sulphate of zinc lotion dropped in the eyes two or three times a day. I also use Epsom salts and sulphur once or twice a week given in dough or mash. I believe that the opinion that roup is contagious comes from the well-known law of nature that "like causes produce like effects," and if one bird has been exposed to sudden changes of weather or roosted in a draught and caught cold another bird or whole flock is liable to do the same thing. Roup may be, and I believe sometimes is, epidemic, but contagious, never.

I know this opinion is counter to many poultry writers, but I think it is being and will be demonstrated beyond a doubt. I hope others will try the experiment of putting a well fowl in the coop with a sick one and have all the inciting causes removed so it will be a fair test of contagion or not contagion. Yours for the truth, JOHN L. JOLLY.

### DRESSING AND MARKETING POULTRY.

The condition of dressed poultry when sent to the market largely determines the price. Frequently poultry raisers complain of the low price they get for their chickens when in truth the specimens sent should have been used for home consumption rather than for marketing. Poultry which makes a good show always meets a ready sale and brings good profits. Poultry dressed and packed in every conceivable way, without regard to appearances, seldom pays the shipper for his trouble, and, as a rule, he literally has to give it away to get it off his hands. This is wrong. A few poor birds in a crate of good ones ruin the sale of the whole lot as first-class birds, and injure the reputation of the shipper. It would be better to throw away the absolutely poor ones than to lower the price that may be realized from the sale of the good ones.

The best way to kill poultry is that way which causes instant death without disfigurement or pain. Suspend the chicken by tying the legs firmly to a pole or heavy wire across the killing-room at a convenient distance from the floor. Open the fowl's beak with a sharp-pointed, narrow-bladed knife, and make an incision at the back of the roof of the mouth, dividing the vertebra. Another painless way of killing is to sever the veins in the neck, and leave hanging until properly bled. Keep fowls without food for at least twenty-four hours before killing, as full crops injure the appearance and are likely to sour. This, of course,



FIG. 1.

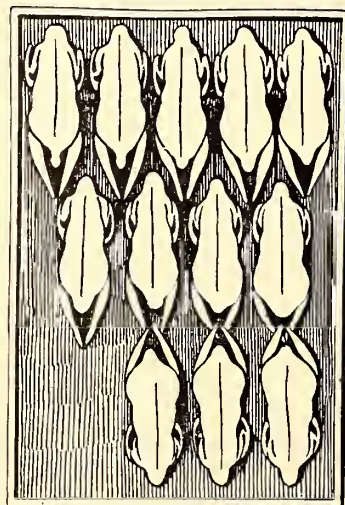


FIG. 2.



lowers the value of the bird. Dry-picked fowls present a plumper appearance when dressed; besides, the feathers may be thus saved for marketing.

For packing poultry provide boxes, for they are preferable to barrels. Place a layer of rye or wheat straw, thoroughly cleaned from dust, on the bottom. Commence packing by bending the head of the first fowl under the body (see Fig. 1.) Then lay it in the left-hand corner of the box, with head against the end of the box and back up. Continue in the same manner until the row at the end of the box is filled. Then begin the second row, letting the head of the first bird of that row pass up between the two adjoining birds, which will make the whole solid and firm (see Fig. 2.) On packing the last row reverse the order, placing the head against the other end of the box, letting the feet pass under each other. Fill the spaces left with straw. Over this first packing put a layer of straw thick enough to prevent the birds coming in contact with the next packing. Add other birds in the same way until the box is filled. Care should be taken that the box is full enough to preclude disarrangement in transit. It would be advisable for those who have extra fine fowls to wrap each one separately in manila paper before packing. This will prevent dust and straw adhering, and will add much to their appearance. The box should have the initials of the consignor, the number and variety of contents, as well as the name and address of the consignee marked on it.

### THE COCHIN FAMILY.

The four varieties of Cochins are very popular with breeders. They are second to the Brahmas in the meat breeds, weighing but a pound lighter than the Light Brahma. Old and experienced breeders of Cochins are pronounced in praise of their qualities as profitable fowls. They are hardy, good winter layers of rich, brown, medium-sized eggs, and fairly good table fowls. The chicks grow well and develop rapidly under proper care.

The Buff variety is the most generally bred; their color tone offers an attraction to fanciers that is hard to resist. Both male and female are of a rich, deep, clear buff, uniform in shade throughout except the tail, which should be a deeper buff or copperish bronze, under-color same as surface-color, but of lighter shade and should extend to the skin. In breeding select females as near as possible to the desired shade of buff, as free from dark or white in wing and tail, and of as even a color as can be. To such females mate a cock of deeper shade, with some little black in wing, and tail of deep buff of a coppery luster. This mating will produce good results in cockerels and pullets. The heavy leg and foot-feathering so characteristic of the breed should have constant care and attention. While the feathering should be abundant, all semblance to vulture hock, or stiff feathering, should be avoided.

The Partridge Cochin is a beautiful fowl yet difficult to breed, and in plumage is much after the pattern of the Dark Brahma, the color being red and brown, instead of the steel-gray effect of the latter. The head of male, in color, is bright red, hackle bright red or orange-red, with a distinct black stripe down the center of each feather; saddle-feathers same as hackle; breast and body, rich deep black; wing-bows, red; primaries, black on inside web, with a bay edging on the outside web; secondaries, black on the inside web and rich bay on the outside web, terminating with greenish-black at the end of each feather; wing-cov-

erts, greenish-black, forming a well-defined bar of that color across the wing when folded; tail, black; sickles, coverts, and lesser coverts, glossy greenish-black; the latter may be edged with red; thighs, black; shanks, yellow, and well covered with black or brownish feathers, the middle toes being also well feathered.

The female is the prettier of the two. Her head is small and of a rich brown plumage, with a stout, well-curved beak, yellow in color. Her eyes are bay and mild in expression. The head is ornamented with a small single comb, set perfectly straight upon the head and bright red in color. The wattles are small, well rounded, and fine in texture; the ear-lobes are well developed and are also fine in texture.

The neck is neatly curved, with abundant hackle flowing well over the shoulders. The plumage is bright red or orange-red, with a broad black stripe down the middle of each feather. The black stripe in a good feather should run to a point near the end of the feather. This stripe should be free from penciling, but the Standard permits a slight penciling of the black.

A good back and cushion help to make the bird. Her back should be broad and flat, the broader the better, and the cushion should rise with a gentle convex curve and partially cover the tail. The plumage of back and cushion is a reddish-brown color. Each feather is penciled with a darker brown; the outlines of the penciling conform to the shape of the feather. The breast is one of the most important points of a good hen, and should be broad and massive. The plumage is of the same reddish-brown color as the back. The penciling on the breast is perhaps a little more distinct and open than on the back; the outlines of the penciling should be sharp and conform to the shape of the feather.

The body is broad and deep behind and of the same plumage as the breast. The fluff is very abundant, covering the posterior portion of the bird and standing out about the thighs. Wings are small and the primaries fold closely under the secondaries; the bows are covered by the breast-feathers and the fluff conceals the points. The primaries are very dark brown or blackish-brown in color; the inner web of the secondaries is a blackish-brown and the outer web is a blackish-brown penciled with a lighter brown. The coverts are similar in color and penciling to the plumage of the breast.

The tail is small and short, is carried almost horizontally, and is partly concealed by the cushion. In color it is black, except the two main tail-feathers, which are penciled. The tail-coverts are penciled same as breast and body. Thighs are large and well covered with soft feathers; the feathers on the lower part curve inward around the hock and hide the joint on the outside. The feathering of the thighs is of the same shade and color as that of the body. Shanks are short and yellow, and heavily covered with feathers of same color as thighs. The toes are well spread and yellow, the outer and middle toes being feathered throughout their entire length.

Black Cochins are much more easily raised than are either of the varieties thus far described. Being of one color, the care bestowed in breeding parti-colored or penciled birds is not necessary, and the time may be spent in furthering their general utility in egg production. A one-colored bird is the more practical for the farmer and market poulterer. The Black Cochin is of a rich glossy black plumage throughout. The White Cochin is pure white in plumage.

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### AFFIDAVIT.

I, Charlie Wood, pressman for the firm of George E. Howard & Co., publishers of THE FEATHER, Washington, D. C., being first duly sworn, state that I am printing 15,000 copies of the March, 1899, number of THE FEATHER.

Signed: CHARLIE WOOD.

Subscribed and sworn to before me this 18th day of March, 1899.

[SEAL] HERBERT C. EMERY,  
Notary Public, D. C.

The demands for THE FEATHER are exceeding all expectations. Last month the number printed was raised from 10,000 to 12,000 copies, and there are scarcely enough remaining for the usual reserve. This month we are printing 15,000 copies, and the indications now are that the orders will be increased in proportion to the edition issued. If this continues a few months longer there will be few poultry journals which can boast a larger circulation. THE FEATHER is published for the benefit of the great poultry industry, it is edited with the belief that there is great progress to be made in many directions, and its publishers rejoice that their efforts to point out these directions and aid the great work are appreciated. The readers of this journal will find that there are many good things in store for them during the coming year.

## New Equipment.

For several months THE FEATHER has not reached our subscribers for a week or even more after the stated date of issue. This delay has been a source of much annoyance and embarrassment to the publishers, who have used every endeavor to put their magazine in the mails on time and have nevertheless been disappointed. It was at last reluctantly admitted that there is no printing establishment in Washington available for the purpose, which has the facilities to promptly handle the present edition of THE FEATHER. As the delays became intolerable, the offices have just been removed to a large building specially designed for the publishing business, modern presses have been purchased and a complete printing establishment has been organized. The issue for March is being printed upon our own presses and it is expected that all lost time will be made up by next month and that the April number will appear on time. Our increased facilities, with large new presses, additional type, cutters, and other machinery, make our equipment complete for doing first-class work in every particular. We have especially fitted up our new office for doing such printing as poultrymen and pigeon fanciers need. We can do everything from a business card up. Our new offices are located at the Southwest Corner of Eighth and H Streets N. W., where we will be pleased to see our many friends when they are in Washington.

## Colored Supplements.

The supplements issued with THE FEATHER, which have illustrated some of our popular breeds of fowls, have been much sought after and admired. It has been our aim to offer the highest class of illustrations both in the columns of the paper and in the supplements, and there can be no doubt of the success of this effort. Having demonstrated what THE FEATHER could do in black and white, we distributed in January our beautiful colored plate of Light Brahmas which has been universally praised as the best picture of the kind ever printed. There are some things, however, about all of the methods of color work heretofore used which make them unsatisfactory where large editions are required. The publishers of THE FEATHER have, therefore, undertaken the task of inventing and perfecting a new process for printing colored plates, and have the pleasure of presenting their

first effort as a supplement with this number. The result is, we think, a great success, and when there has been time to perfect the method we feel sure that the problem of producing illustrations true in color and markings to the original will be solved. Those who desire a full set of these artistic colored plates should subscribe now, as back numbers are quickly exhausted.

Mrs. Comyns-Lewer's Visit.

It has been our pleasure to meet MRS. COMYNS-LEWER, the editor of our esteemed contemporary, *The Feathered World*, London, Eng. MRS. COMYNS-LEWER has been around among our breeders for the past couple of months, as well as being in attendance at the Toronto, Boston, and New York shows. Her two days' visit at the National Capital was enjoyed very much by us, and we regretted very much that her visit with us was not longer. We hope she was pleased with her first visit to America, and that we will have the pleasure of another and longer visit in the near future.

## Will Poultry Thrive on Grain Alone?

In feeding poultry, as in feeding other animals and all plants, the nitrogenous compounds are the most expensive. We can economize in fertilizer-buying by selecting the brand or chemical whose composition proves it best and cheapest; in cattle-feeding, the shifting prices of the various by-products allow us to discriminate to our advantage in the purchase of protein; and a still wider difference separates the cost of nitrogenous materials in the many poultry foods. Fowls and ducks naturally eat considerable animal matter as well as vegetable foods. Can we economize here? Is the cheap protein of pea meal, oat meal, wheat bran or linseed meal as efficient as that in the more expensive animal meal, dried blood or fresh bone; or must we include some form of animal nitrogen in our rations to replace the grasshoppers and earth worms of natural poultry life?

Experiments made at the Station with chicks, pullets, cockerels, and ducklings seem to indicate conclusively that part of the protein must be drawn from animal sources if we are to get the best results; and, with ducklings in particular, some form of animal food in addition to skim milk or curd seems essential for the maintenance of health and vigor.

Two sets of trials were made with chicks. One lot in the first trial was carried from one-half week of age until twenty-five weeks old upon a grain mixture of cornmeal (12), wheat flour (4), ground oats (2), wheat bran (1), wheat middlings (1), pea meal (1), and old-process linseed meal (1), with wheat, corn, animal meal and fresh bone. The corresponding lot upon vegetable food received a grain mixture of pea meal (6), old-process linseed meal (4), wheat bran (2), ground oats (2), high-grade gluten meal (2), wheat middlings (1), and cornmeal (1), with wheat, corn, and skim milk or curd. The two rations were practically equivalent so far as amounts of protein are concerned, although the "animal meal" feed had a little wider nutritive ratio than the grain feed. The distinctive difference was that in the first ration about two-fifths of the protein came from animal sources, while in the other ration all came from grain except a little from skim milk. In the second trial the chicks were started at



six weeks and carried for fourteen weeks, the contrasted rations being as in the first trial.

In each trial more food was eaten by the lot receiving animal protein, the gain in weight was more rapid and maturity was reached earlier, less food was required for each pound of gain and the cost of gain was less.

During the first twelve weeks of the first trial the chicks on animal meal gained 56 per ct. more than those on the vegetable diet, although they ate only 36 per ct. more; they required half a pound less of dry matter to gain one pound and each pound of gain cost only 4¼ cents as compared with 5 1-5 cents for the grain-fed birds.

During the next eight weeks the cost of gain was 7½ cents and 11 1-5 cents, respectively. The animal-meal chicks reached two pounds in weight more than five weeks before the others; they reached three pounds more than eight weeks sooner; and three pullets of the lot began laying four weeks earlier than any among the grain-fed birds.

With the second lot of chicks, starting at six weeks of age, the differences were in the same direction, though not quite so striking; thus showing that the great advantage of the animal nitrogen is in promoting quick, healthy growth and early maturity rather than increasing the tendency to fatten.

For the fourteen weeks of the second test, the most important comparative figures are shown in the table below:

*Comparative Gains of Chicks on Animal and Vegetable Foods.*

Feed given.	For one pound gain.			
	Dry food req'd.	Cost of food.	Time.	
			First pound.	Second pound.
	LBS.	CTS.	DAYS.	DAYS.
Meat-meal ration.	4.6	5.6	47	30
Grain ration.	5.2	7.1	61	38

Feeding of the cockerels was begun in September when the birds were about three months old, and they were fed for twelve weeks. Satisfactory gains were made for about eight weeks, the advantage being still with the animal foods; as only 3 pounds of water-free food of the animal meal rations were required for a pound of gain against 3 4-5 pounds of the grains. After this time the gain was not made economically by either lot.

The results were most convincing, almost startling, in the case of ducklings fed the contrasted rations. The two lots of ducklings were fed, respectively, on the first grain mixture mentioned for the chicks with cornmeal, ground oats, animal meal, and a little skim milk and dried blood; and on the second mixture with wheat bran, cornmeal, ground oats, and skim milk or curd. Both lots were fed green alfalfa; and sand and coarse grit were freely supplied. As before, the vegetable ration contained a little more protein—its nutritive ratio was slightly narrower—but so much more of the other ration was eaten that each meat-fed duckling received more protein. Of this nearly one-half was from animal sources.

Before the experiment had been long under way it was noticed that the "animal-meal" birds were developing rapidly and evenly; but the grain-fed duck-

lings were becoming thin and uneven in size. It was sometimes almost pitiful to see the long-necked, scrawny, grain-fed birds, with troughs full of good, apparently wholesome food before them, standing on the alert and scrambling in hot haste after the unlucky grasshopper or fly which ventured into their pen: while the contented-looking meat-fed ducks lay lazily in the sun and paid no attention to buzzing bee or crawling beetle. The 32 meat-fed birds lived and thrived; but the vegetable-fed birds dropped off one by one, starved to death through lack of animal food, so that only 20 of the 33 were alive at the close of the fifteenth week of contrasted feeding. They were then fed for four weeks on the meat-meal ration, and made nearly as rapid gains as the other lot at the same size, two months before; but they never quite overcame the disadvantage of their bad start on grains alone.

In conclusion, then, it may be said that rations in which from 40 to 50 per ct. of the protein was supplied by animal food gave more economical results than rations drawing most of their protein from vegetable sources. The chief advantage was in the production of rapid growth, although the cost of production is also in its favor. While inferior palatability may have had something to do with the marked results, especially with the ducks, the whole bearing of these experiments and others not yet reported seems to indicate that the superiority of the one ration is due to the presence in it of animal food.—F. H. HALL, *Bulletin No. 149, New York Agricultural Experiment Station.*

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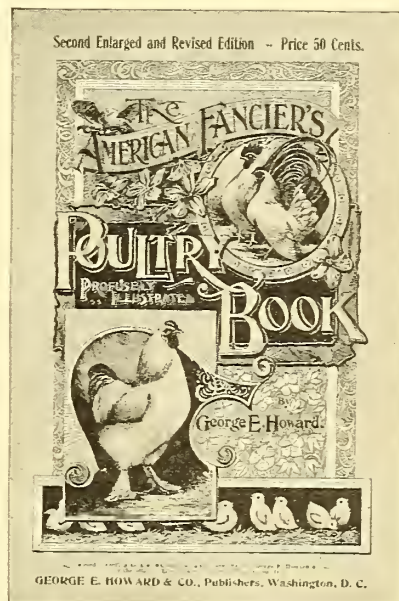
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# Practical Poultry Raising

FOR THE  
EXPERT.....  
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## The Best Winter Layers.

Fred. E. Truebell, a subscriber to THE FEATHER, made the following query in our last issue:

I am desirous of ascertaining which is the best breed of all poultrydom for winter laying, and to that end I invite brief answers from fellow poultrymen giving the name of the breed and the date of hatch for pullets to lay in November, December, and January the greatest number of eggs, the necessary care and conditions being met. It is expected that answers will be shorn of personal prejudice.

From the number of answers received, it is with pleasure we publish the following:

C. F. PULSIFER, Gloucester, Mass.

Which is the best layer? This is a very wide question to answer. With me, I find that the Buff Plymouth Rocks are the greatest layers, with the White Wyandotte a close second. Starting to lay the first part of November, and keeping at it through wind, snow, and cold, filling the nest with good-sized brown eggs. I can honestly say that the Buffs are the greatest layers that I have owned. All through the last part of February, when most hens in New England were on a strike, they were shelling out the eggs. Hatched them the middle of April to the middle of May.

A. G. BRUBAKER, Denver, Pa.

I have been breeding Silver Wyandottes for eleven years, and lately added a pen of Buff Wyandottes. I have also bred Silver Penciled Hamburgs, White and Brown Leghorns, Black Minorcas, Barred Plymouth Rocks, Buff Cochins, and Light Brahmas at different times during the last fourteen years. I am convinced that the Wyandottes were the winter layers with me. This winter my layers were composed of eight April-hatched pullets and seven yearling hens. In November they laid from seven to thirteen eggs per day; December, six to thirteen per day; January, five to twelve per day. I feed in the morning a warm mash; noon, warm oats; evening, warm corn. In summer-time, morning, cold mash; no feed at noon; evening, cold oats and corn mixed.

C. D. HOFFAR, Mound City, Ill.

Seeing in February number of THE FEATHER, Mr. F. E. Truebell's question Which are the best winter layers? I will give my experience. I have bred thoroughbred poultry since 1885, and have tried Light Brahmas and several of the large varieties, and I have also tried the Leghorns. For the past five years I have bred the Silver Spangled Hamburgs. I find that they lay better, and while not so large as the Leghorns, they laid more eggs in December, January and February. They were all housed the same and fed exactly alike. The Hamburgs are always busy, and never get fat as quickly as the larger breeds; the Single Comb Leghorns are apt to get their combs frosted. I had several pullets hatched May 9 to 11, 1898, and they commenced laying the 21st of

September. Three laid in October, all I had (some twenty-three or twenty-four) commenced in November and have laid all through December, January and February (this month). I have very warm houses, and keep them scratching for nearly all they eat. Understand, I do not say the Hamburgs are the best fowls, but they laid more eggs than my Leghorns, and others I have had in winter, and they seem to bear confinement well. I trust I haven't used too much valuable space. I can not write as briefly as I would like.

C. H. SMITH, Manager Grape Hill Poultry Farm, Stanton, Pa.

I see in THE FEATHER a question for all subscribers to answer. This is my second winter in the poultry business. I have three different breeds of which I am keeping an egg record, and thought this might help out in the question.

I have one pen of Light Brahmas, cock and four hens, all of which score above ninety points. They laid in November, fifty-one eggs; December, forty-two eggs; January, sixty-three eggs, and February, eighty eggs, making a total number of 236 eggs laid in four months. Out of the forty-two eggs laid in December, I have thirty-eight Brahma chicks four weeks old.

My pen of White Wyandottes, cock and four hens, are also good stock, prize winners. This pen laid in November, sixty eggs; December, thirty-eight

eggs; January, fifty-five eggs, and in February, seventy-six eggs. Total number of eggs laid, 229.


My pen of Anconas included cock and four hens, the same as the other two pens. They laid in November, forty eggs; December, thirty-two eggs; January, sixty eggs, and in February, eighty eggs, making a total of 212 eggs for the four months. Anconas can be forced to lay in eighteen weeks; they are very hardy and of quick growth. Your egg-basket is never empty when you have Anconas.

We have been very successful with these three breeds. I believe the Light Brahmas are the best winter layers, but the Anconas will produce, ten months out of a year, more eggs than any other breed on the globe.

H. A. HOLCOMB, New Bedford, Mass.

In answer to the query in your February number, Which are the best layers? I will give you my experience of the last four years. I am in the business for eggs and have no favorite breed. Keep twelve to fifteen in a pen fourteen feet square, with about six inches of millet and clover to hunt the grain in. I have on my farm 200 Rhode Island Reds, fifty White, thirty Golden, thirty Silver Wyandottes, forty-five White, eighty Barred Plymouth Rock pullets, all March to May hatched. The Rhode Island Reds commenced to lay about November 1, and have been laying right along without letting up, and during the cold snap of this month, February, increased their egg yield, and since November have laid ten eggs to two of either of the other breeds that I have per pullet. All are given the best of care and feed, to the best of my knowledge. For eggs yielded during this last cold snap all the other breeds mostly stopped laying. I have put in my incubators since November, 5000 Rhode Island Reds' eggs and have sold eggs enough to pay for feed for the whole and have some cash on hand and the Rhode Island Reds laid for me eight-tenths of the eggs to do the same.

## WHITE WYANDOTTES ONLY.



### 40 pens....

Now is the time for

### EGGS

\$3 for Hens', and  
\$2 for Pullets' Eggs.

THE HOME OF THE

## WHITE WYANDOTTE

Willowcrest Poultry Yards,  
GOSHEN, N. Y.

J. E. WHITE, Manager.



W. H. HARDIN, New Tazewell, Tenn.

Referring to the inquiry of Mr. F. C. Truebell, Ausable Forks, N. Y., in February number of your paper, as to which breed of fowls make the best winter layers, permit me to say, please, in this connection, that after eight years' experience in the care and management of thoroughbred poultry, during which time I have bred several varieties, I have yet to find a breed of fowls that will produce as many eggs (conditions being equal) during the winter season as Single Comb White Leghorns, with White Wyandottes and Black Langshans as close seconds. This assertion is based upon actual experience and is made without prejudice to any particular breed. For the past three weeks or more we have had perfect Klondike weather, the temperature falling as low as ten to twenty degrees below zero, without any perceptible decrease in my egg supply and I keep nothing but White Leghorns, from the fact that I believe them to be, when kept under proper conditions, the greatest all-year-around egg producers in existence, as well as small consumers, which is also quite an item.

#### Buff Turkeys.

*Editor The Feather:*

I notice an article in your valuable paper for January, on turkey raising, written by Mr. J. F. Crangle, in which he states that for practical purposes Buff Turkeys are no good. Now, I will venture to say the gentleman never saw a genuine Buff Turkey. He states that Buff Turkeys are very small, and inferior to either Bronze, Narragansett, or White Holland Turkeys. The gentleman evidently has not got an American Standard of Perfection or he would not have made that statement. If you will notice, the standard weight for Buff Turkeys is, cock twenty-seven pounds, hen eighteen pounds, cockerel eighteen pounds, pullet twelve pounds, which is two pounds heavier all around than White Hollands. Buff Turkeys comenext to the Narragansett in weight, the only difference being in the cockerel and cock, which are two pounds and three pounds heavier in the Narragansett; hen and pullet the same as the Buffs.

He also states that they are inferior. I can not understand how that can be when they are supposed to be a sport from pure Bronze Turkeys. About two years ago I had what I supposed were pure Bronze Turkeys. From them I raised quite a number of turkeys. When one clutch was taken off the nest, I noticed there were two little turkeys that were yellow. They grew and thrived and turned out to be Buff Turkeys, which were nicer and larger than the parent stock. They were a gobbler and hen, and this composed my foundation stock. Buff Turkeys are like the White Holland; they are very gentle, they make a pleasing sight in the sunlight, with their rich golden color. They are good layers and mothers, they fatten easily, and I consider them the equal of any other breed of turkeys from a commercial standpoint. A moderate-sized turkey will often command a higher price in our markets—especially in the retail markets—than a very large one.—E. C. HUESTIS.

#### A Short-time Record.

*Editor The Feather:*

I have nine Silver Spangled Hamburg pullets in a pen, two of them not reach-

## WORK FOR THE MONTH.

The first calendared month of spring. The uncertainties of March weather will not permit if any cessation or abatement of the rules for governing the flocks in winter. Continue the methods of feeding as prescribed for the two previous months; excepting, perhaps, the rations of whole corn. Instead of feeding whole corn entirely at night, feed a mixture of equal parts of corn and wheat. Supposing that your pens have been satisfactorily mated for breeders, you should now set your hens for early chicks. The large breeds should be hatched early to insure full maturity before the cold weather sets in in the fall. To make a good nest for a sitting hen, place in the bottom a layer of fresh dry earth; cover it with bruised straw or hay, and dust the whole thoroughly with Persian insect powder to ward off lice, and then lay the eggs in center of the nest. Before the hen is placed on the eggs give her a good dusting with the powder; don't be afraid to use it, as it will stand you in good stead before many days.

1899		MARCH					1899
Su	Mo	Tu	We	Th	Fr	Sa	
			1	2	3	4	
5	6	7	8	9	10	11	
12	13	14	15	16	17	18	
19	20	21	22	23	24	25	
26	27	28	29	30	31		

ing laying maturity. These pullets laid in January, from the first to the twenty-eighth (when I send this) as follows: 2, 6, 5, 1, 6, 5, 3, 4, 6, 4, 4, 2, 6, 5, 4, 4, 5, 4, 3, 5, 6, 3, 5, 6, 4, 5, 7 eggs a day. A total of 124 eggs, or an average of 4.3-7 eggs per day for the nine pullets.

In another pen I have five Barred Plymouth Rock pullets, which were hatched in May, that during the same time (January 1st to 28th) laid the following: 2, 2, 3, 1, 4, 3, 4, 1, 5, 3, 3, 3, 3, 5, 4, 4, 3, 4, 3, 4, 3, 5, 2, 5, 3, 5, 3 eggs a day. Making a total of ninety-four eggs for the twenty-eight days; an average of 3.5-14 eggs per day for the five pullets. Is this so bad for a greenhorn?—H. D., Lititz, Pa.

No this is not bad. It is very good laying, and the figures are very satisfactory. We would be pleased to have a more complete record, covering a greater period of time.

#### Ring Doves.

*Editor The Feather:*

Am delighted with your paper; would not be without it. Would you please give in it shortly an article on Ring Doves, or at least give a description of their color, etc., the standard they are judged by, and also how to breed and what to feed them?—Miss E. E. S., Finksburg, Md.

The Colored or Ring Dove is a native of Europe and Western Asia, and is about the size of the Mourning Dove. Tail shorter, rounding or square at end instead of graduated. Breeds readily in confinement. No bird to my knowledge so readily adapts itself to cage life as this pretty little dove. Two eggs are laid and both male and female are devoted to their charge. Wheat, hemp, canary seed, millet, dry bread crushed are relished by them, sharp grit or sand is necessary. Also old plaster and salt. They can be taught to fly around at liberty. Allow the male to go out alone at first. He will not forsake his mate. A friend had them around his yard like the common pigeon. When courting the male bows in a ludicrous manner, and as they fly from perch to perch, a low laughing sound is uttered. To some this cooing during nesting time is disagreeable, to me very pleasing. There are two colors, the Buff and White. The latter seem though to be more delicate, probably inbred too closely. The true Ring Dove is a much larger bird,

more of a blue, and has a white ring around the neck. Never heard of their being bred in captivity—come from same locality.—N. R. W.

#### Black Cayuga Ducks.

*Editor The Feather:*

Will you please tell me through THE FEATHER where I can get Black Cayuga Ducks?—Mrs. N. L., Gearing, Iowa.

Fisher's Island Farm, Fisher's Island, N. Y., breeds Black Cayuga Ducks.

#### Not as Good Layers.

*Editor The Feather:*

Are Barred Plymouth Rocks as good layers as the Brown Leghorns, the year around?—Mrs. F. A. M., Moab, Utah.

No. The Barred Plymouth Rocks may lay more eggs in winter than the Leghorns, but the latter will lay a greater number of eggs during the year.

#### Changing Males.

*Editor The Feather:*

Kindly inform me if Mr. Arthur G. Duston, Marlboro, Mass., inbreeds his own or does he change cocks to produce a better standard bird? Read your article regarding his poultry farm with interest. Is it best to change cocks or not? Dr. B. J. L., St. Louis, Mo.

In answer to the above, Mr. Duston writes: "A part of the time I change blood, say one or two new males a year, and then I have some thirty pens I breed from, so really there is no need for me to ever go outside for new blood."

#### The Best Male.

*Editor The Feather:*

I have some Light Brahma females, and want to mate them with some kind of male bird, that will make the chicks mature earlier for market than the pure Brahmas do. Will a Plymouth Rock male improve the cross, or what other breed will be best?—J. R. P., Jr., Morristown, N. J.

The Plymouth Rock male will improve the early-maturing qualities of the chicks. A White Leghorn male, Single or Rose Comb, makes an excellent cross with Light Brahma females. The chicks mature early, are plump, and are altogether good fowls. We would suggest the latter cross, if a cross is to be made, as we believe it will give the results desired.



### Markings of the Bronze Turkey.

*Editor The Feather:*

Will you please tell us through THE FEATHER, the true markings of the Bronze Turkey? We appreciate your magazine very much.—F. R. W., Elba, Ohio.

The general plumage—color of a Bronze Turkey male is a very brilliant metallic bronze, which is made up of black, with greenish reflections, brown, and white. The female is the same as the male, but much duller in color. We would suggest that you purchase a copy of the Standard of Perfection, which describes fully the markings of each feather. This we can not do without encroaching on the rights of the copyright. See our ad elsewhere about the Standard.

### Salt-Cat.

*Editor The Feather:*

Will you kindly inform me where I can get salt-cat for pigeons?—T. B., Elizabeth, N. J.

The best form to give salt to pigeons is in the lump, as it comes from the quarries, known as mineral or rock salt. A lump will weigh from four to ten pounds, and can be purchased at most feed stores. Placed on the floors it gathers moisture from the air and so keeps in a condition that the birds can get all they need. Salt-cat can not be purchased. Recipes for making salt-cat have been published in these columns.

### Eggs and Meat.

*Editor The Feather:*

Have taken much interest in reading THE FEATHER. I am going to keep a few fowls for my own use, and take the liberty of asking a few questions. (1) For laying hens and meat how do White Wyandottes compare with Barred Plymouth Rocks and Light Brahmas, where birds are confined in runs? (2) Are White Wyandottes hard to raise? I heard they were. (3) How do they compare as winter layers? (4) For large egg production, how often should I feed clover meal, meat meal, and linseed meal? Rev. D. E. L., Island Heights, N. J.

1. White Wyandottes compare very favorably with the Barred Rocks, and are placed ahead of the Light Brahma for eggs and meat. By many they are considered superior to either of the others as a general-purpose fowl. 2. No, they are not hard to raise; not more so than any other fowl. 3. Very well; they hold good records. 4. Not more than once a day in the mash. See "Not Satisfied With Results," page 169, February FEATHER.

### Contagious Catarrh—Sore Eyes.

*Editor The Feather:*

My chickens have free range. Some of the June and July hatches seem to have a discharge from the nostril, which glues it up so it is difficult for them to breathe. They are warmly housed and have good care, and are not let out in storms. They have access to oyster shells, sand, etc. Some of their eyes will swell shut. I was told to give them a little aconite in the drinking water, and I think it has improved them. They seem to sneeze when let out in the cool air of mornings. I hatch with incubators and raise with hens and brooders. I fear the disease will spread and the spring chickens will catch it. Last year was my first experience in raising incubator-hatched chicks. I put off 2,460, but a good many died with a bowel trouble, feed how or what I would. I attributed it to so much wet weather. Hope to succeed better this year.—A. W. N., Burlington, Kans.

The symptoms given are those of contagious catarrh, and prompt treatment should be given affected birds. Give them stimulating food, with cayenne pepper mixed into it. If the disease appears serious and shows the characteristics of the contagious form, separate the sick birds, sponge the mouth and nostrils with a solution of creolin (one per cent) or a five per cent solution of sulphate of copper, give quinine one grain or asafetida two grains twice a day, and disin-

fect the poultry-houses with carbolic acid solution (five per cent) and white-wash. The following remedy is highly recommended by Megnin:

Gentian root.....	4 drams
Ginger .....	4 drams
Sulphate of iron .....	2 drams
Hyposulphate of sodium.....	1 dram
Salicylate of sodium.....	1 dram

These substances are to be pulverized and then mixed. The dose is three or four grains a day for a medium-sized fowl. Its effects are stimulating and tonic.

### Sore Eyes.

*Editor The Feather:*

Will you please give me a remedy for sore eyes in chickens?—C. A., Peetzburg, N. J.

This is what is known as contagious catarrh. In most cases the disease is fatal, that is, when the eye is entirely swollen shut. A five per cent solution of sulphate of copper will readily cure the milder forms of the disease. Wash out the nasal cavities and eyes with this solution, and inject it into the nostrils with a syringe. Keep the bird in warm, dry place, and feed soft feed in the morning with a little cayenne pepper in it. (See Contagious Catarrh—Sore Eyes, this number.)

### Pullets Will Not Lay.

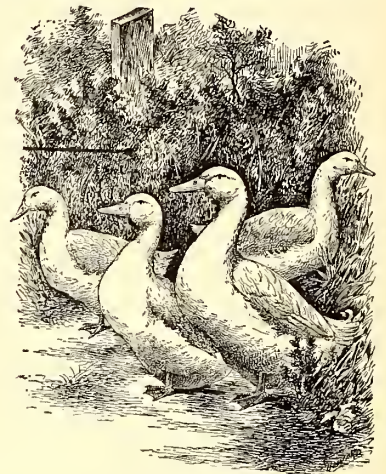
*Editor The Feather:*

Will you kindly answer the following through the columns of your paper? Why don't my pullets lay? I have thirty-six White Wyandotte pullets just nine months old. I got the first egg November 27th and in about one week from that time was getting five a day, but in about two weeks they had dropped to two eggs a day, and now only one every other day. The thirty-six pullets have a house of tongued and grooved stuff 8x14 feet; scratching-shed open only to the south, 14x24 feet, with run attached 32x80 feet. I feed as follows: At sunrise, scatter one quart of corn chaps (cracked corn) in the litter in shed; at 10 a. m., two quarts (will weigh about one and a half pounds) of green bone in litter to scratch for; at noon, one quart of steamed oats in litter; at 4 p. m., one quart of wheat in litter, and just before dark, three quarts of mash made of two quarts bran, two quarts steamed clover meal, one quart middlings, one quart cornmeal, one quart ground oats, one quart sand, and one pint linseed meal. They are in healthy condition, combs red, and they are always hungry and scratching all day long—yet don't lay. Have plenty of fresh water and oyster shells, (crushed.) How much green bone could I safely give them every day? They are plump, but not over fat, because, as I said before, they are always busy. If you can tell me why they don't lay, I will be very much indebted.—Poultry, Royal Oak.

Seemingly, from the above, there is no reason why our correspondent's pul-

## Royal Blue Line Poultry Farm.

THEO. P. GREEN, Proprietor,  
WOODBURY, NEW JERSEY.



### IMPERIAL PEKIN DUCKS

The best stock in America. Large birds, snow white, pure yellow bills and legs. Eggs for hatching, by the setting, per 100, and per 1,000, prices low for stock. Breeding birds for sale.

### BUFF COCHINS....

These are grand birds, pure buff color, and large size, excellent shape and style. Eggs for hatching, \$2 per 13. Birds for sale.

### WHITE WYANDOTTES

This strain of birds is made from four noted strains—the best stock money could buy. Eggs for hatching, \$1.50 per 13. This is low for the fine character of stock.

### Royal Blue Line Lofts,

Contain the world's greatest record Homers, with proven records from 1,183 miles, and the best short and long-distance Homers in the world. Stock always for sale.

Send for my illustrated catalogue of Poultry and Pigeons. I can please you, and my prices are low for the quality I breed.

THEO. P. GREEN,  
WOODBURY, NEW JERSEY.

## LOOK AT THE LIST

...OF...

## FIRST PRIZE WINNERS

At the head of my matings for 1899. My catalogue of matings tells you all about it. Send for one and be convinced that the strongest matings

Barred Plymouth Rocks,  
Brown Leghorns,

....Are in these yards.

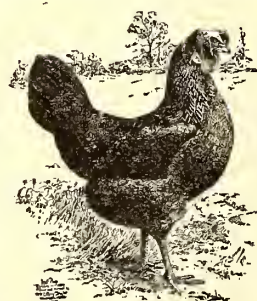
16 First Prize Winnings  
at New York and Boston  
now in the yards.

## GROVE HILL POULTRY YARDS,

A. C. SMITH, Superintendent,

W. E. BRIGHT, Prop.

Box 411, Waltham, Mass.



EGGS: \$3 per 13;  
\$10 per 50.

These from the same matings  
I use myself. None other  
matings made.



lets should not lay: but a careful observance of the feeding as practiced by him, will show a discrepancy in the egg-producing foods. There is lacking a sufficient supply of both green foods and animal foods in the above rations. The green bone (one and one-half pounds) is hardly sufficient for the thirty-six pullets, and there is, no doubt, a great deal of it wasted by scattering it in the litter. The proper way to feed green bone is in troughs, and it should not be mixed with any other food; it should not be fed more than three times a week. We suggest that our correspondent change his mash ration as follows: Two parts bran; one part middlings; two parts cornmeal; two parts ground oats or wheat; two parts steamed clover, or clover meal, and one part animal meal. This should be mixed thoroughly in a dry state, and use by simply adding hot water, feeding crumbly, never dry nor sloppy. By omitting the sand and linseed meal, and adding the animal meal and ground oats or wheat, the ration is greatly improved and more evenly balanced. Nothing is so good as the animal meal for the ration and we believe the results will be much better. We can recommend Smith and Romaine's Boiled Beef and Bone, as one of the best articles on the market, and it can be fed in one part of the above ration instead of animal meal. Use sharp grit in connection with the crushed oyster shells, and cabbage occasionally should be given the fowls. The balance of the feeding is good, but change the mash, and keep the hens scratching and we think you will improve the egg production of your birds.

#### A Transfer.

WASHINGTON, D. C., January 20, 1899.

I hereby certify that I have sold to Charles T. Letson, of Stelton, New Jersey, the first-prize Black Minorca cockerel, at the National Poultry Show, held in Washington, D. C., January 10-14, 1899.

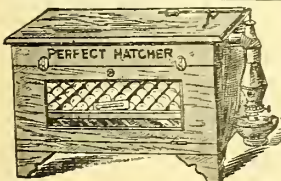
Signature.

JOHN M. ALLEN.

[We are requested to state that Mr. Letson will have no birds for sale this season, and the above transfer is published to notify the public that the bird has passed from the yards of Mr. Allen. Ed.]

## SEED DUE BILL FREE

To get new customers to test my seeds I will mail my handsome catalogue for 1899, lithographed and beautifully illustrated, and a 10c. Due Bill, good for 10c. worth of seeds for trial, absolutely free. It is full of bargains. All the Best Seeds, Bulbs, Plants, Roses, new Fruits, Farm Seeds, Potatoes, etc., at lowest prices. Ten Great Novelties offered without names. I will pay \$50. FOR A NAME for each. Don't buy your stock until you see this new catalogue. Several varieties shown in colors. Great inducements for orders this year. You will be surprised at my bargain offers. Send your address on Postal to-day. Tell your friends to send too. Old customers will receive a copy. F. B. MILLS, Seedman, Box 118, Rose Hill, N. Y.



\$6 and up. Prize Fowls and Eggs. Tes. and illus. Cir. 2 cts. J. A. CHELTON, Fairmount, Md.

This 100-egg Self-Regulating Hatcher only \$6. Outdoor Brooders, 100-chick size, \$5. Hammon-ton Incubators with latest improvements \$12 and up. Nursery Brooders

#### Shows and Associations.

We organized the Cornish Indian Game Club in 1890 at New York, and held all meetings in the East up to the last meeting at Kansas City in 1894, since which time we have not had a regular club meeting. We have a noble breed in the Indian Game, and should have one of the strongest special clubs of any breed of fowls in the United States. The Cornish Indian Game Club of England is one of the strongest clubs there and very great interest is taken in them.

At all the fat stock and dressed poultry shows in England the majority of the prizes are awarded to the Indian Game, or Indian Game crosses. We have always taken a great interest in improving the color together with size and shape, since it was first imported, and all breeders of the Cornish Indian Game should take an interest in the club and make it one of the strongest and rich-

est clubs in America. Let all breeders take membership in it, keep up their dues, and induce all brother breeders to do the same. Now please let us have your hearty co-operation and help us get up a rousing catalogue and a fine lot of specials for the annual club show, to be held in connection with some strong show. Initiation fee is \$1, with fifty cents dues each year afterward. Let us hear from you.

ADAM THOMPSON,

Amity, Mo.

Sec'y and Treas.

The date of the next Boston show is January 15-20, 1900. All communications as to same should be sent to A. R. Sharp, Taunton, Mass.

#### A Correction.

In our report of the Boston show, in awards of White Wyandottes, it should read F. H. Fuller instead of C. H. Fuller, as printed.



## CRESCENT FARM

Box F, KENT, OHIO, U. S. A.

### BUFF COCHINS

Winners at MADISON SQUARE GARDEN, NEW YORK, BUFFALO, CLEVELAND and ELMIRA.

### WHITE LEGHORNS

Which won nearly everything Competed for at Buffalo and Cleveland Last season.

We can furnish some very choice young stock bred from the above winners.

Send for Catalogue.

Address E. T. BLOOD, Mangr.

REV. HENRY M. LADD, Prop.

J. W. FISKE, Passaic, N. J.,

A breeder for 20 years...

S. G. White Leghorns,

S. G. Brown Leghorns, H. W. Smith's Strain.

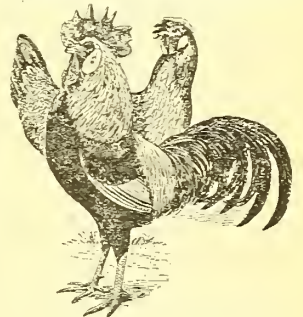
Eggs, \$1.50 per 13.

Silver Duckwing Leghorns, Always... ..Winners.

Eggs, \$3 per 13.

Barred Plymouth Rock, Welles' strain, \$2 per 13.

STOCK FOR SALE.



## WARNER'S

# ..Barred Plymouth Rocks..

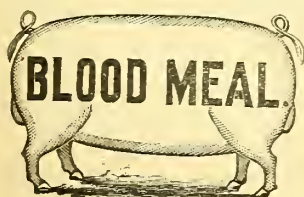
Are Matchless Winners and Record Breakers.

Recent Great Washington Show, 1st cockerel, 5th cock, 1st pen. 38 cockerels and 8 pens competing. Hagerstown, Md., 1898, 1st cockerel, 2d pullet, 2d pen. Hamilton, Va., 1898, 2d cock, 2d hen, 1st cockerel, 2d pullet, 1st, 2d and 4th pens. 12 pens competing. Washington, January, 1897, 1st and 2d cockerels, 2d and 4th pullets, 5th hen, 1st pen. Recent Washington cockerel, and 1st pen, are the matchless Rocks of 1899. You want eggs.

Richest matings of our lives for this season. Eggs, \$3 per 13; \$5 per 26. Note cockerel and pen record.

A. E. WARNER, Lincoln, Va.

TWELVE MALES shown by us and our customers have won First Prize, shown single or at the head of exhibition pens, since September 1st, 1898.



IF YOU WANT YOUR HENS TO LAY, FEED THEM

## ...DEODORIZED BLOOD MEAL...

(Summer's Process.)

Only Animal Meal on the market that is Odorless. Blood contains all the elements of the egg. It will make your hens lay when nothing else will. It will make young chicks grow faster than any other food. We have 2,000 unsolicited testimonials from satisfied users. Send for circulars or try a sample order. Blood Meal is the most highly concentrated food made. 10-pound bags 50 cents each; 50-pound bags, \$2. Order from our nearest house. Agents wanted.

F. S. BURCH & CO., { 68 Murray Street, New York.  
178 Michigan Street, Chicago.  
1110 Farnam Street, Omaha.



## THE NEW YORK SHOW.

The Tenth Annual Exhibition a Grand Success. Report of the Show.

ONE of the most interesting events of the season was the tenth annual exhibition of the New York Poultry and Pigeon Association, held in Madison Square Garden, New York City, January 31 to February 4, inclusive, 1899. It was one of the most successful events held by this association, financially and otherwise. Mr. H. V. Crawford, the secretary and superintendent, is to be congratulated upon his skillful management of so great an undertaking, as well as upon his courteous treatment of all in attendance.

The show was cooped by Spratts Patent coops, and the arrangement of the hall was excellent. The decorations this year were magnificent. The list of judges was complete in both the poultry and pigeon classes. Many specialty clubs held meetings during the week of the show.

The display of birds was larger and of better quality than for several previous years, several classes being better represented here than was ever known before. There were 1,745 birds in the open classes in poultry; 117 exhibition pens; 1,521 entries of pigeons. This splendid list of entries assured the success of the show.

The Brahma classes were good, although in point of numbers were not as strong as they have been. The quality was, however, the best. The principal winners in Lights were Albert Sessions, John L. Cost, Louis R. Whitaker, Fred D. Lesure, Norwood Farm, A. A. Bailey, and George W. Hillson. The display of Mr. Sessions was elegant and he won the choicest places. His first cockerel and first pullet were splendid. The first pen of Fred D. Lesure was an exceptionally good one. John Klee, Jr., followed with second pen, and Hartnest Park won v. h. c. on an excellent pen of their renowned layers. The honors in Darks were divided between L. B. Minich & Son, Wm. A. Pease, Sage & Garside, Hempstead Farm, and Thorpe & Scott. The latter's first cockerel was one of the best specimens it has been our pleasure to see. The first pen of Hempstead Farm was a good one.

Cochins were a great class, both in quality and numbers. On Buffs, Oakland Farm won first and second in each class. Lynnhurst Poultry Yards were next winners in each class, and came in for second and third pens. George Ball was the recipient of first honors on pen, besides several places in the open classes; his pen was a fine one indeed. George Mitchell won about all on Partridge Cochins. Blacks were good indeed, though a small class. R. P. Thompson and F. W. Mercer divided the first and second places. Mr. Thompson's first cockerel and first pen were beauties. Whites were more numerous than the Blacks. The awards split up between R. P. Thompson, Lynnhurst Poultry Yards, A. Reinhardt, F. A. Purdy, Wm. A. Pease, and R. B. Millard. Black Langshans were great. As is the custom Dr. F. M. Robinson made

his usual record on the "black beauties." His birds are well known everywhere, and we will pass on. Rowland P. Keasbey came in for a good share of the honors on Blacks, besides making quite a display of Any Other Color Langshans. Two classes were given to the new variety, Buff Orpingtons. The exhibitors being C. E. Vass, L. H. Bowlby, and James S. Warne.

The exhibit of Plymouth Rocks would be hard to excel. It was a grand and great display of worthy birds, and all three varieties, Barred, White, and Buff, were out in force. It was a battle royal with them all. In the Barred classes, C. H. Welles made "things hum," winning first, third, and fifth on cocks, first and second on hens, second, third, fourth, and fifth on cockerels, first, second, and

strong and of an exceptionally good quality. It was a splendid class of birds and gives promise of a great future for this variety of practical and show birds. The honors were scattered among F. A. Purdy, A. C. Hawkins, Frank Kline, James Forsyth, W. C. Denny, Clifford W. Beman, S. E. Gesner, and Thomas H. Wilson.

The Wyandotte classes were of good quality, the Whites and Buffs being extremely large in numbers and fine in quality. Lebanon Poultry Yards won first on White cock, second on hen, second or cockerel, and first on pullet. James Forsyth is credited with second cock, first hen, first cockerel, and first pen. Willowcrest Poultry Yards won second and third on pens. In Buffs C. S. Mattison won the five firsts in the open

classes and on pens. The balance of awards were divided between S. E. Gesner, James Forsyth, Geo. E. Godfrey, Daniel Stauffer, and A. P. Groves. Silvers were a small class. J. C. Jodrey, J. S. Mayhew, John T. Cothran, Theo. E. F. Holzhauser, were the winners. The classes of Golden were of extremely fine quality, they were true Wyandottes, with good lacing and rich color. Jesse A. Moon's first cockerel was one of the best birds we have ever seen. Mr. Moon has a jewel in this bird. Ira C. Kellar was another winner in these classes.

Black Spanish and Blue Andalusians were good classes. Quite a number of fine birds were shown in the latter classes. Newton Cash and A. C. Keyser made elegant displays.

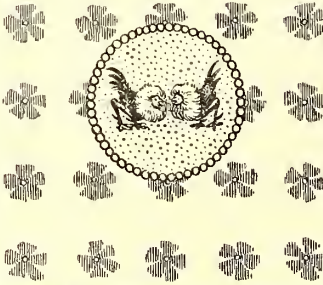
Leghorns were there in good numbers and fine qualities. Whites were splendid. Ezra Cornell's winners were well placed, his first cockerel being a stylish and attractive bird. The Highlands showed a good hen, winning first on her. Browns were a hot class, and the awards were divided between George H. Burgott, Chas. E. Powell, Dr. H. W. Dorsey, James Forsyth, and Geo. H. Morris. Buffs were all that could be wished for. Ezra Cornell came in on first cock; second and third hens, second cockerel, first and second pullets, and first pen. L. S. Bache won second on a beautifully matched pen; they were an even set of birds and delightful to look at. Clifford W. Beman, E. C. Slater, Thomas Peer, Root & Gorman, Harry M. Lamont & Co., and Ira Baughman, were other winners in these classes. There was quite a nice display of Rose Comb Buffs. J. W. Fiske made a good display in the Single Comb, Any Other Color Leghorn classes.

Samuel Underhill was also an exhibitor in this class. Rose Combs, both Whites and Browns, were splendid classes.

A better class of Black Minorcas was never shown. It was the greatest, as to quality and numbers, that has been under any other show. Dr. C. J. Andruss won first and fifth on cock, third on hens, first, third, and fourth on pullets. Arthur Trethaway had third cock, second hen, second cockerel, second pullet, and first pen. Lebanon Poultry Yards won first on hen and fourth on pen. James W. Garlick secured first place on an elegant cockerel. August Rudenick, J. H. Doane, and J. H. Santee were others in these classes. White Minorcas were of good quality, some excellent birds being shown. Rose Comb Blacks were a

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Send us \$1 with your name and address, with the names and addresses of two of your friends, and we will send **THE FEATHER** to all three addresses for one year, besides making you a present of a copy of the new edition of **THE AMERICAN FANCIER'S POULTRY BOOK**. This is our best offer yet made to subscribers, and we want all our friends to be readers of **THE FEATHER**. This is a short-time offer and advantage should be taken of it before it is withdrawn. Subscribe now.



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**GEORGE E. HOWARD & CO.,**  
 - S. W. Cor. 8th and H Sts. N. W.,  
 Washington, D. C.

third on pullets, first, second, and fourth on pens. This is a record that will keep all guessing for some time to come. Mr. Welles deserves great credit for his success, and we are pleased to join him in his rejoicing. M. S. Gardner won first on a grand cockerel, third on hen, fourth and fifth on pullets, fifth on pen. E. M. and W. Ferguson won fourth on cock and third on pen. J. H. Thompson, Jr., won second cock, and J. B. Kimenour won fifth on hen. White Rocks were a strong class. E. M. and W. Ferguson won first on their famous white cock, fourth and fifth on hens, fourth on cockerel, and third on pen. A. A. Bailey, Pittman & Pollock, Ramsden & Green, and D. F. Bleim were the other winners in these classes. Buff Rocks were



strong class. George H. Northup, H. W. Bohn, James Holley, and Ralph Stoddard were the winners.

Polish were small classes. Hamburgs, all varieties, were shown, and many good specimens were among them. L. B. Minich & Son, Richard Oke, Rob't Treat Paine, Jr., George Van Derveer, R. R. Topping, and M. R. Jacobas were the principal winners in the Hamburg classes. Dorkings and Houdans were good in quality.

Games were out in force. Black Breasted Reds, Pits, and Indian Games were the largest classes. Birds from the best yards in the country were entered. Peirce Bros., A. E. Blunck, Fremont Chapin, Wade H. D. Warfield, W. Barber, John Glasgow, F. X. Kienzie & Bro., Elmer Gibb, E. M. & W. Ferguson, H. M. Carpenter, and R. R. Topping were the chief winners in the Game classes. Game Bantams were beauties; a better string could not be hoped for. Much could be written about the Bantam exhibit at this show, but space will not permit.

The waterfowl display was rich. Great birds were shown, Pekin Ducks being especially fine. A. J. Hallock won the cream of the prizes on Pekins. Chas. F. Newman was next best, and Lebanon Poultry Yards had a share of the places. Geese were good, and many grand birds were in the pens. Turkeys were of the same high character. The Bronze Turkeys of E. M. & W. Ferguson and George Wolf, and the White Hollands of D. A. Mount were a guarantee as to the quality.

The entry of pigeons was exceedingly large. It was a magnificent sight to see so many fine birds as were to be seen here. The classes were well filled with the best representatives of the best lofts in the country. It would make a report in itself to touch upon these classes. Cats, covies, and rabbits completed the display of live stock.

Displays were numerous. Couran Bros.' display of dressed poultry was an interesting one. It attracted considerable attention from visitors and did much to interest the public in choice stock.

The busy room was that which adjoins the exhibition hall, where were shown the displays of incubators, brooders, bone cutters, and poultry supplies. This exhibit was one of the interesting features of the show, it had many attractions to the visitor, and much good resulted from it. The Prairie State, Pine-land, Star, Universal, Homer City, Des Moines, Monitor, and Cyphers incubators and brooders were shown in operation. These machines are well known to our readers, and their splendid reputations were fully maintained at this show. The Bennett & Millett Co. showed their \$5 Prize Brooder and their clover meal. The Excelsior Wire and Poultry Supply Co. had a magnificent show of the numerous articles which they supply to poultrymen. The American Cereal Co. was there with their famous poultry feed. Other displays were made by the Lyon Manufacturing Co., Mexican Mustang Liniment, also by R. C. Reeves & Co., J. C. Edwards, H. S. Wemple, and J. S. Woodhouse.

The American Buff Plymouth Rock Club.

The third annual meeting of the American Buff Plymouth Rock Club was held at Tattersall's Building, Chicago, Ill., January 11, 1899. In the absence of the president, Dr. C. J. Andruss, the meeting was presided over by

the vice-president, F. C. Shepherd. The roll call was responded to by four members from New York, six Illinois, one Indiana, one Missouri, two Iowa, two Ohio, two Michigan, and two applicants for membership received from Illinois, one from Indiana, and one from Ohio. Fifteen applications for membership were received all of which were accepted.

The officers elected for the present year were: President, F. C. Shepherd, Toledo, O.; vice-president, G. W. Hamm, Battle Creek, Mich.; secretary and treasurer, W. C. Denny, Rochester, N. Y.; executive committee, president, secretary, and H. E. Benedict, Elmira, N. Y.; R. G. Buffinton, Fall River, Mass.; Will F. Fry, Chicago, Ill. Honorary State vice-presidents; D. H. Foster, New York; Geo. W. Wills, Iowa; F. E. Mow, Indiana; Jay R. Bowles, Missouri; R. H. Essex, Ontario, Can.; J. F. Harral, Illinois; S. Z. Harroun, Michigan; B. F. Huntington, Wisconsin; Frank H. Hawley, Ohio; V. K. Dayhoff, Mary-

land; F. Gilman Taylor, California; J. M. Hill, Colorado; E. W. Brown, Connecticut; W. H. Scovil, Maine; Dr. O. C. Link, Nebraska; Frank Woodbury, 2d, Massachusetts; Dr. T. J. Rush, Ok. Terr.; J. E. Rooker, New Jersey; D. Shields, Pennsylvania; D. B. Frontis, South Carolina; H. Collier, Washington; W. D. Lathrop, North Carolina; W. A. Chase, Kansas.

The club is one of the largest and strongest in the country; has a membership to date of 170, and new members are expected. Beside offering a handsome and valuable cup at Chicago, five others were offered to States having ten or more members. These specials brought out large exhibits in each State, excepting Illinois.

Let all reliable breeders of our variety, who have not yet joined our club, send their application with \$1 for membership fee and \$1 annual dues to October 1st, '99, to the secretary and treasurer, W. C. DENNY, Rochester, N. Y.

## ...LICE AND MITES...

Mites and Lice on your poultry?  
Paint roosts with Lee's Lice Killer.  
All done.

Next morning look, and see all lice and mites lying dead on roost-boards.

Many customers report finding them in piles a half inch deep where each fowl roosted the night before.

Seeing is believing.  
Same with hogs.

Paint rubbing-posts or sprinkle floor of sleeping-pen.

All done.  
No more lice, mites or fleas.  
No handling, no labor.  
Cheap.  
Only 75 cents for a gallon can.  
Want some?

Our catalogue gives a list of principal agents, but if you will write us we will send you the name of the nearest dealer to you who has our goods for sale; possibly a dealer in your next town, or perhaps in your own town.

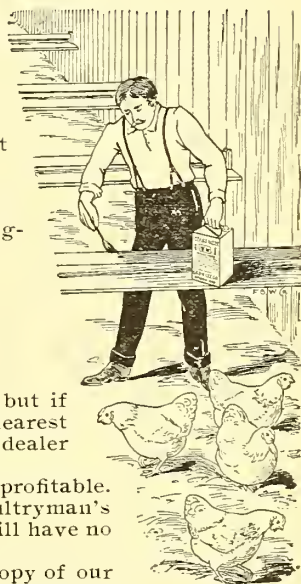
Lee's Lice Killer makes poultry raising easy and profitable. Lice and mites are at the bottom of most of the poultryman's troubles at all seasons of the year. Young chicks will have no lice if the old fowls are free from vermin.

Every user of Lee's Lice Killer should have a copy of our 64-page book on "Insects" and diseases of poultry and stock. It's free on request. There's a right way and a wrong way for everything. We want to tell you the right way to use our Lice Killer so as to secure the best results at the least expense.

Don't judge the genuine by the imitations. If there were no genuine, there would be no imitations. Adopt new methods. Hours spent in dusting and greasing the poultry can be more profitably utilized elsewhere.

Price of Lee's Lice Killer.		Lee's Insect Powder.		Lee's Tonic Powder.	
1 qt. can,	\$ .30	1 lb. box,	\$ .25	1 lb. box,	\$ .25
2 " "	.50	postpaid,	.35	postpaid,	.35
4 " "	.75	6 lb. box,	1.00	5 boxes for	1.00
5 gal. "	3.00	25 " "	3.00	25 lb. box,	3.00

If no agent near you, write for agent's prices.



Address Nearest Office as Below:

**GEO. H. LEE CO.,**  
Omaha, Nebraska,  
or 68 Murray Street, New York.





CONDUCTED BY J. C. LONG, NEW YORK CITY.

### How To Build Up a Loft.

Selection of stock, hygienic housing, scientific treatment, training and a stringent application of the principle of "survival of the fittest" are the main factors concerned.

It is apparent from the above items that the fancier has most of the game in his own hand, and demonstrates the saying, "'Tis the fancier makes the birds." Commencing with youngsters, descendants from stock of reputed good blood and for consistently good performances, these are settled to a loft constructed and kept under favorable conditions as to ventilation, cleanliness, light, size relative to number kept, free from draughts and damp, and well lime-washed.

Free trap is allowed them until ten weeks old, and from the first they are made accustomed to some sound as a signal for feeding, and an inducement to trap upon hearing same. At that age they are allowed out early morning and evening before feeding.

Feed on sound tic beans (half), maple peas and vetches (half). Provide flint grit, broken oyster shells, and salt. Replenish drinking water frequently, and keep a piece of iron in the vessel (if earthenware). Thus treated, they get condition for training at, say, twelve or thirteen weeks old.

Train to 100 miles at the most their first year, in suitable stages and weather. In the best blood duffers exist, and require weeding.

Careful notes should be taken of their individual performances, and the duffers destroyed.

None but consistent workers retained, the nucleus with which to build up the loft remains.

Training finished, feed as described until completion of molt, when the sexes are separated until March, and are then paired according to their fitness for each other, governed by the results of training. Breed one nest each before training (at most two), and during this period birds sit on dummy eggs, thus avoiding exhaustion from feeding young.

Hens near laying are not trained in this condition, neither are cocks sent long journeys when driving hard.

Year-old birds are trained up to 250 miles (not more), 350 the following year, and with what survive he is ready the fourth season to go "as far as who goes farthest."

Birds ailing or malformed are destroyed, in conformity with "survival of the fittest."

Breeders of exceptionally good young retain, and cease training.—*Racing Pigeon.*

### Who Owns this Bird?

Washington, February 25.—The State Department has received the following

report from Mr. Louis H. Ayme, consul of the United States at Guadeloupe, W. I., dated January 31:

Sir—I have the honor to report that the American schooner Alice Archer, of Bath, Maine, which arrived in this port January 28, from Philadelphia, has on board a Carrier Pigeon which flew on board in an exhausted condition the afternoon of January 10. The vessel was then approximately in latitude 37 degrees north, longitude 74 degrees west, and a heavy northeast wind, almost a gale, was blowing. The bird was picked up by the steward and taken to the master, Arthur Gibbs. He fed the bird, and then noticed it carried on its leg an aluminum ring engraved with the following letters and figures:

N. A. 46146.

The bird refused to leave the ship, and is still in possession of the master. It is well and strong, and feeds well. Captain Gibbs can be addressed care of Arthur Sewall, Bath, Me. I respectfully suggest that the substance of this dispatch be given to the Associated Press and newspaper correspondents generally, in order that the owner of the bird may identify it and reclaim it. I presume the ring inscription will be recognized, and, as the bird bore no message, it was probably being flown for distance, and its recovery, therefore, under the circumstances, may be of special value and interest.

### Magpie Standard.

SIZE—small: I find from actual measurements, good average specimens, in good condition, will weigh for cocks from 9½ to 10½ ounces, hens from 8½ to 9½ ounces; and when standing in a

natural position will measure from sole of foot to top of head from 8 to 9½ inches in height, the length from tip of beak to end of tail, without stretching, from 12½ to 14 inches. 10 points.

SHAPE—apparently long, slender and snake-like, chest full and round, but not broad, the body round, thin, and gracefully tapering from front to vent, with no approach to Owl or Tumbler form, shoulders well defined, but not carried too prominently as in the Dragoon, legs set well back to show breast. 9 points.

CARRIAGE—is a very important characteristic of the Magpie, but if the shape be good and true, the proper carriage is almost sure to follow; it should be smart, sprightly, and, if I may use the term, ladylike. The body well poised on the graceful and slender limbs, the neck and body forming a continuous easy curve—the Hogarth line of beauty—but the neck must not incline backwards, head and beak carried nearly horizontally, flight and tail neatly folded to complete the *tout ensemble*. When possible, birds should be trained to the show-pen before exhibiting, to enable them to display their proportions to the best advantage. 9 points.

HEAD—must be long and thin, round on top of skull, showing a soft easy curve in every direction—the term snake-headed is often used, but to my mind, does not apply, as many snakes which I have seen are flat-headed, which is quite the reverse of what we want in the Magpie—as nearly even in substance throughout as possible, not wedge-headed, no stop at junction of head and beak, but rising with a gradual curve from front to back, fine and neat at back of skull, lean face, with no approach to Owl or Short-faced Tumbler form. Junction of head with neck to be neat and almost imperceptible without throatiness. 8 points.

BEAK—should be long, thin, and nearly equal in substance throughout, with slight hook at end of mandible, but no dip in lower mandible, free from coarseness, furnished with slight wattle of fine texture, pale in color approaching white, free from stain or marking except in Blacks, Blues and Duns, in which colors a very slight Vandyke mark on tip of upper mandible is admissible. 8 points.

NECK—long, thin, quite free from gullet or fullness at the throat, thinnest at



## The Eureka Nest Box

(PATENTED.)

Increase fertility in Eggs by culling out hens that lay infertile eggs.

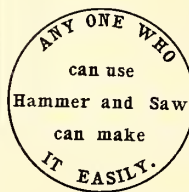
100% SATISFACTION ABSOLUTELY GUARANTEED.

What Mrs. A. J. Turner says:

"DEAR SIR: With the help of the directions sent me, I was able to construct the Eureka Nest Box myself, and my hens immediately put them to practical use. I think it will be of great value to those who keep hens."

Circular for two-cent stamp.

Decrease grain bills by culling out hens that don't pay their way.



Shows  
Eggs Laid  
by  
Each Hen.

**HARTNEST PARK,**  
Box 10, Framingham, Mass.  
SAMUEL FOOTE, Superintendent.

To avoid mistakes, address exactly as above.

Shows  
Which Hens  
Lay.

Made  
Wholly of  
Boards  
and Nails.



the point of junction with the head, swelling gently towards the shoulders, which it should join with a graceful and gentle curve. 5 points.

**EYE AND EYE-CERE**—Eye white or pearl-color, pupil intensely black and clearly defined, what is commonly known as a "fish eye" the eye-cere is seen in various tints, from nearly white to a coral-red. I consider in Blacks the deeper the red the better, add a shade of pink in other colors, but do not put much stress on this point. The cere should be small and fine in texture, no approach to a barb eye is admissible, but just enough to show a delicate and even border to the eye, and no more. The general effect of the eye, although prominent, is mild in expression, not bold as in some breeds. 5 points.

**LEGS AND FEET**—Legs rather long than otherwise, straight, not knock-kneed nor cow-hocked. Shanks thin, lean, and free from feathering, covered with fine scales. Toes long, thin, and well separated, also free from feathering. Toenails white, both legs and feet bright red in color. 3 points.

**TAILS AND FLIGHTS**—Tail rather long, the feathers narrow and closely folded, containing not more than twelve feathers. (I have known strains which frequently threw birds with thirteen and even fourteen feathers.) Not swallow-tailed or divided in center, the tail should be carried in a line with the back, just clear of the ground, but not cocked up at all. **FLIGHTS** rather narrow, closely folded, carried close to side, tips resting on top of tail, about half an inch from end, not crossed. 4 points.

**COLOR**—The whole of the body except head, neck and breast, back, saddle and tail pure white, the color on the colored portions to be bright, deep, and lustrous as possible; in Blacks the iridescent colors and metallic sheen are most important; wherever the color extends it must be of one rich, even depth, extending even to the shafts of the tail-feathers. Many otherwise good birds often run chequery or ashy about the top of the rump and root of tail, which is very objectionable. In order of value, I estimate the colors thus—1st Black, 2nd Yellow, 3d Red, 4th Blue, 5th Silver, 6th Dun. Blues and Silvers should have black tail-bars. 12 points.

**MARKINGS—CUT ON BREAST.** Sharp and evenly defined, without artificial assistance, the color extending downwards to about the tip of the breast-bone, or a very little below, running across the breast, either in a straight line or slightly curving upwards towards shoulders, showing a slightly convex form. It is advisable to raise the wings, and if many foul feathers are discovered between breast and vent markings, the breast should be carefully examined for foul feathers or trimming. 12 points.

**CUTS ON SHOULDERS**—Color extending across the broadest part of the back at the shoulders, from side to side at intersection of the wing with body, tapering evenly and smoothly towards the tail, and forming an elongated heart or V-shaped saddle, showing no ragged edges on shoulders.

**CUT AT VENT**—Even and extending only a very short distance from beneath root of tail, no foul or colored feathers extending towards thighs or belly. 12 points.

**PLUMAGE**—close and compact, but not hard feathered. 3 points.

**DISQUALIFICATIONS**—Trimming or plucking of foul feathers, dyeing or oiling, dark or gravel eyes, heavy mark-

ings on back, feathered legs or feet, Tumbler form of head or body, chequered or ashy back or rump, want of condition.

It's O. K.

THE FEATHER is the best paper I ever read. It's O. K.—M. LYNN, Chicago, Ill.

Would Not Sell It.

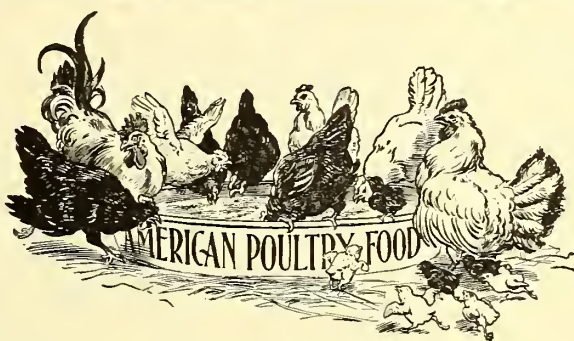
Editor The Feather:

Received THE FEATHER last night, and I am very much pleased with it. The Light Brahma supplement I think is very fine, and worth three times the price of your journal. I would not sell it for one dollar. GEO. HARMS, Scribner, Nebr.

## THE IDEAL LOFT

Home of Punta Gorda, (875 miles) Champion of Washington, D. C. Youngsters and trained birds for sale from such noted strains as Geo. Gitz, Hausenne, Pletenckx, Wegge, Dr. Wilde, Thos. Brooks, Hussen, Garbraut, Wagner, and many others. Prices to suit the times. No Catalogue. Correspondence solicited.

E. L. BARCLAY, 812 21st St. N. W., Washington, D. C.



### For a Morning Mash

It is not in hatching, but in rearing, the chickens that you meet with most of your mishaps. Diarrhoea, constipation, leg weakness, imperfect development and unnatural feathering all prove that the feed is improperly balanced. To overcome all of these difficulties, and to develop perfect fowls, feed American Poultry Food which is scientifically combined, and contains every element required to grow large, lusty birds.

*Sold only in Sealed and Branded Sacks.*



We freely offer the services of our Feed Expert to assist in the solution of all questions pertaining to the proper feeding and care of poultry, and invite you to write us on such matters, carefully stating your difficulties.

Practical Poultry Feeding, a little book covering a wide range of subjects of vital interest to Poultrymen, will be sent you free, post paid, on request. Address, SCIENCE DEPARTMENT,

**The American Cereal Co.**

1351 Monadnock Bldg., Chicago, Ill.



## THE BUSINESS WORLD.

### As Viewed From the Columns of The Feather.

#### THOMPSON'S "RINGLETS."

We show in illustration two half-tones of E. B. Thompson's trophies won and some feathers from the birds that won them. Mr. Thompson is so well known to our readers that an introduction is unnecessary. His birds are such that their reputation is established, and none are in better standing in the show-room. Read Mr. Thompson's two ads in this number; he tells his story in plain language, and will send you his best prices if you will write him.

#### A SWEEPING VICTORY.

The new ad of C. H. Welles, Stratford, Conn., proprietor of the Welleslea Barred Plymouth Rock Farm, which appears in this number of *THE FEATHER*, will be welcomed by our readers. Mr. Welles is a single breeder, a Barred Rock man, and one who has made a complete success of his work. If you will glance at his ad and read his record at the last New York show, you will no doubt be of the same opinion. His birds are all that one could wish for in Barred Rocks, and their quality is of the highest. He has lots of breeders on hand, the same blood as his New York winners, which he sells at low prices for such birds. We can fully recommend Mr. Welles to our readers; we are well acquainted with him and know his birds also. We hope to give an extended article as to his farm and birds in the near future. See his ad in this number and write him for prices of stock and eggs.

#### FIRST-CLASS BIRDS.

The Uplands Poultry Farm, Box 100, Station D, Baltimore, Md., breeders of White Wyandottes, Barred Plymouth Rocks, Partridge Cochins, and Light Brahmas, are making some very large sales this season. Their birds are first class, and have done well in the show-room. Those wishing stock or eggs should write them as above for circulars and prices.

#### PRIZES WON BY ELMWOOD FARM.

The following prizes have been won by our Cochin and Cochin Bantams at four of the leading exhibitions held this winter: At West Chester, Chester County, Pa., we entered eleven Bantams, winning six first and five smaller awards. At the Great National show, held at Washington, D. C., we entered ten Cochin fowls, winning second and third on Buff Cochin cock birds, fourth

on hen, third on cockerel, first and second cockerel Partridge Cochin, third hen, and fourth pullet on same. At the great Boston show we entered eight Partridge Cochin Bantams, winning four firsts, four seconds, and six specials on them. At New York, four firsts, four seconds on Partridge Cochin Bantams; second and third Buff Cochin Bantam hen, fifth cockerel; second on Light Brahma hen, fifth pullet; first Dark Brahma Bantam hen; also five specials on the exhibit.

On forty-four entries made at these four shows, we have won sixteen first and twenty-three smaller awards; also eleven special prizes. Every entry but

ness left. Neither can he show you a photo, engraving, plans, or any crude design of the Eureka Nest without giving the patent away, and we know the readers of *THE FEATHER* would not wish him to do that. The fact of the whole thing is, that the Eureka Nest is so very simple that any one can build it, and Mr. Silberstein only sells the plans. That is all that is needed, and when you once have the plans you can start in and build enough Eureka Nests for your entire farm at a small expense. To our readers we will say this: The Eureka Nest is one of the best things that have been invented to advance successful and profitable poultry keeping.

By its use you will learn many things to your advantage, and you will be the wiser and richer for its use. You will not be buying a cat in a bag, but will get full value for your money. Our personal knowledge of Mr. Silberstein and his Eureka Nest enables us to recommend the use of his Nest to all our readers. We want the readers of *THE FEATHER* to get the best results possible from their fowls, and this nest will help one and all to know the profitable from the unprofitable ones. You will know your birds. See his ad and write him as directed therein.

#### THE \$5 CHAMPION.

A brooder to be a success must conform to the principles laid down by natural laws. The Messrs. J. A. Bennett & Sons, Gouverneur, N. Y., claim their \$5 Champion Brooder to be constructed on these laws and a complete success. Their brooder has had large sales, the sales of the last more than tripling those of the past year. The construction of the case of the \$5 Champion Brooder is planned after a system of the most careful and successful experiments to ascertain the best possible form and material to use. The case is so constructed that the brooder can be used either indoors or outdoors, one way

equally as well as the other. It is well made, strong and durable, to withstand years of hard usage. The material used is one-inch pine lumber, tongued and grooved, and planed on both sides. The corners are "halved" or rabbeted, glued and nailed both ways. There are two separate compartments, the back is the hover or heating-chamber; the front, separated from the hover by a depending partition, is the cooling or exercising and feeding-chamber. By this arrangement all danger of overheating is done away with. If the hover gets too hot the chicks can move into the cooling-chamber, and being inside the brooder there is no danger of taking cold. The heat is diffused uniformly in all parts of the brooder, keeping the sides and



FEATHERS FROM A COUPLE  
E. B. THOMPSON'S NEW YORK  
WINNING COCKERELS.

FEATHERS FROM A COUPLE OF E. B. THOMPSON'S NEW YORK WINNING COCKERELS.

two having won a prize for us.

T. F. MCGREW,  
1267 Broadway, New York City.

NOT A CAT IN A BAG.

One of the most peculiar businesses that are conducted in the poultry interests is that of Mr. A. J. Silberstein's Eureka Nest Box. Mr. Silberstein is at a great disadvantage with his business, and it is because of our purpose to help him with our readers that these lines are written. In the first place we feel certain that thousands of our readers would now be using the Eureka Nest if they could be made to understand just what it is. Mr. Silberstein can not tell you what it is without giving it to you, and if he did so he would have no busi-



ends equally as warm as the center. The brooder is supplied with a double floor which is so arranged that a small amount of heat can circulate under the floor in order to keep it dry and warm. In nature, the hen when hovering her chicks warms the nest, which in turn warms the chicks' feet, and the system of double floors accomplishes the same result. Messrs. J. A. Bennett & Sons have just issued their new catalogue which they will send free by writing to them at Gouverneur, N. Y.

Elsewhere in this number will be found the ad of C. E. Vass, Washington, New Jersey, who is a successful breeder of these fowls. Mr. Vass publishes in his ad the awards he has won this season with his birds, and any readers who are interested in Buff Orpingtons should write Mr. Vass for stock and eggs.

#### DENNY'S BUFFS.

Mr. W. C. Denny, Rochester, N. Y., whose ad is on the back cover page of this number, writes us as follows:

"This is the third year I have been successful at the meetings of the club, where I have been subject to the hottest competition. This is what I like and want; with birds from all parts of the country, also from Canada, under different judges. My record at Elmira, Rochester, Mt. Gretna, and other places is too well known to mention. My matings this year are better than ever. I send out eggs from the same pens as I use for myself and that they give satisfaction you need only ask my customers, who extend over the United States, Canada and England. Every mating this year is either headed by a prize-winning male, or the son of one."

#### A VALUABLE BOOK.

The handsome catalogue of the Geo. Ertel Co., manufacturers of the Victor Incubators and Brooders is received. It is profusely illustrated, and besides a comprehensive description of their machines, with hundreds of convincing testimonials from those who have used them, contains a valuable treatise on artificial incubation, the care and feeding of poultry, and the building of poultry-houses. Every poultryman should have

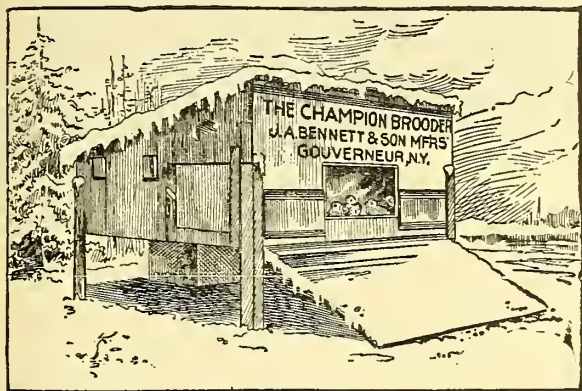
one of these catalogues, which can be procured by sending six cents to the Geo. Ertel Co., Quincy, Ills.

#### WEIGHED IN THE BALANCE.

Our friends and advertising patrons, the Reliable Incubator and Brooder Company, of Quincy, Ill., are rejoicing over a recent victory, and take this means of apprizing their many friends and patrons of the fact. At the recent poultry, pigeon and pet stock show given under the auspices of the Illinois State Poultry, Pigeon and Pet Stock Association and the National Fancier's Association of Chicago at Tattersall's in Chicago, January 8 to 14 inclusive, the Reliable people carried off the banner. There were a dozen of the leading incubators and brooders of the country in competition, and the class was hence an unusually strong one. Such victories as this one are not new to the manufacturers of the Reliable, as they have won times almost without number in this and other countries under almost all kinds of conditions. We know that the hundreds of our readers who are users of the Reliable incubators and brooders will rejoice at this new victory of their favorite.

#### A SUCCESSFUL SEASON.

The Biltmore Farms, Biltmore, N. C., have had a successful season in the



THE \$5 CHAMPION BROODER.

#### "PRIZES BY THE MILLION."

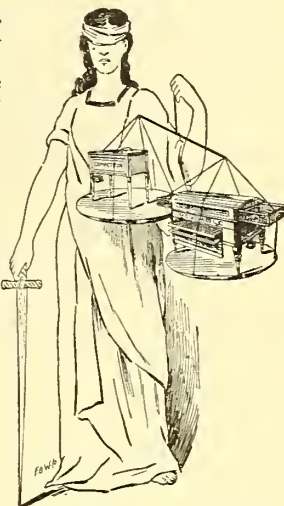
This is the very catchy head-line of Dr. F. M. Robinson's ad in this number of THE FEATHER. Dr. Robinson's address is Box 135, Pawling, N. Y., and he breeds the peerless Black Langshans. A glance at the ad will tell the story plainly; it is a story in itself, and does him credit. In the last five years at New York he has won sixty-three prizes on seventy entries. The matings he will use this year are the finest that can be produced in both males and females. These are all line descendants of prize winners—they are the progeny from generations of prize winners—their blood is worth the breeding. The doctor has some grand breeders for disposal, and is now booking orders for eggs for hatching. Write him early.

#### ONE MAN'S SUCCESS.

The ad of M. S. Gardner, Philadelphia, Jefferson Co., N. Y., to be found elsewhere in this number, will no doubt be of interest to many of our readers. Mr. Gardner is a breeder of Barred Plymouth Rocks, White Plymouth Rocks, Buff Leghorns, and Pekin Ducks. He has scored quite a success on his Barred Plymouth Rocks this season, and has won many choice places with his birds. At the New York State Fair he won 1st cock, 1st cockerel, 1st pullet, and 1st pen. At the Rochester, N. Y. show, January 6th, 1899, with 112 birds in the Barred Rock classes, he won 1st and 2d cocks, 1st, 2d, and 4th hens, 3d, 4th, and 5th cockerels, 1st, 2d, and 4th pullets, and 1st pen. Besides these honors he also won special for best exhibit of Barred Rocks, special for best exhibit in Barred, Buff, or White Rocks, and special for best exhibit in American class. He scored quite a hit by winning 1st on Barred Rock cockerel at the last New York show at Madison Square Garden.

#### BUFF ORPINGTONS.

This new variety of fowls is attracting much attention just now. Good results are reported of their laying qualities by those who are breeding them.



CUPS AND CHALLENGE TROPHY, WON ON BARRED PLYMOUTH ROCKS BY E. B. THOMPSON.



show-room. The prizes won by these farms were 170 at Washington show, North Carolina State Fair, and the Piedmont Poultry show. They have a grand lot of breeding birds for sale, and are booking orders for eggs from the following varieties: Light Brahmas, Buff Cochins, Black Langshans, Cornish Indian Games, Black Minorcas, Barred and White Plymouth Rocks, White, Silver, and Golden Wyandottes, White and Brown Leghorns, Bronze Turkeys, Pekin Ducks, Toulouse Geese. See their ad in this number and write them for prices.

#### LEGHORNS TRULY.

The Valleyview Farm, Ithaca, N. Y., breeds Single Comb White and Single Comb Buff Leghorns. These two varieties are bred to the exclusion of all other fowls on this farm. Mr. Ezra Cornell, the proprietor, has spared nothing in the making of his strains of Leghorns. They are representative birds and winners wherever shown. We show in illustration a portrait of his first-prize Buff Leghorn cock at New York in 1898. This is one of his stars, but he has added many others to his list. His winnings at Madison Square Garden this year were as follows: On Single Comb White Leghorns, 1st cock, 2d and 5th hens, 1st and 4th cockerels, and 1st pen. On Single Comb Buff Leghorns, 1st cock, 2d and 3d hens, 2d cockerel, 1st and 2d pullets, and 1st pen. These winnings will acquaint our readers with the quality of his stock. See his ad elsewhere in this number and write him for circulars, giving prices of his stock and eggs.

#### "THE DOCTORS" AGREE.

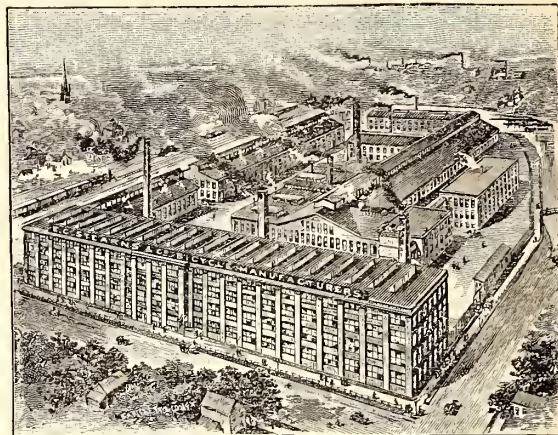
There is probably no other subject on which all poultrymen so nearly agree as to the value of green cut bone for fowls. The results noted by practical poultry keepers are in full accord with the scientific makers of balanced rations. The theory of it all is that if you feed a hen the material of which eggs are made, she will produce the eggs in abundant quantities. Looks reasonable, too, doesn't it? The problem of producing a cutter to properly prepare the bone seems to have been solved in the Webster & Hunnum Bone Cutter, now manufactured by E. C. Stearns & Co., of Syracuse, N. Y., whose reputation as manufacturers of hardware and the famous Stearns' Bicycle is world wide. The illustration herewith given shows their immense factory and offices. The name of this house upon any machine is sufficient guarantee of its superior excellence. Our readers will do well to send for the booklets published by this house—they will interest any poultryman whether he wants a bone cutter or not, or even though he may have one already. Address as above.

#### AN OPEN LETTER.

LA PORTE, IND., Feb. 13, 1899.  
H. D. MASON'S SONS,

Fabius, N. Y.

Dear Sirs: It was with much regret that we learned of your father's sudden death through the columns of THE FEATHER. In my dealings and correspondence with him, as the senior member of the firm, I had learned to value him very highly and had hoped to some day meet him, and know him in person. I hope that his sons will still continue in the same path and push the golden queens and kings of poultrydom onward and upward. I wish to give you results of a setting of eggs shipped to Peoria, Ill., three years ago to James Walker. He got thirteen chicks and raised them. It was our good fortune to buy the flock. As pullets and cockerels, we showed one cockerel, 91½, four pullets, 94, 93½, 93, and 92½, under Judge Russell. The next year we showed



FACTORY OF E. C. STEARNS & CO., SYRACUSE, N. Y.

the 94-point pullet as a hen and she scored 88½; the pullet 93½, second 89, winning still first and second and they only changed this under G. O. Brown, of Baltimore, Md.

When we came here last August we sold the old stock including one of the males purchased of you last spring. They were shown again this winter at Peoria, winning first and second with scores of 91 and 85. The one hen has a record to be proud of holding 93½ as a pullet under Russell, and 89 as a hen under Brown, and 91 under Felch as a hen, making an average under three judges of over 91 points, and a Mason hen at that. Hoping you may have a good year's business, I am, Yours as ever,

EARL HEMENWAY.

[We are pleased to announce that the oldest son, Fred. G. Mason, will conduct the business as here-to-fore.—Ed.]

#### GOOD ROCKS.

A. L. Fawcett, New Albany, Pa., breeds Buff Plymouth Rocks exclusively. He has built up a strain of this variety that are first class. He guarantees a satisfactory hatch from eggs purchased from him. See his ad.

#### DOUBLED THEIR CAPACITY.

The Von Culin Incubator Company, of Delaware City, Del., has lately reorganized and doubled their former capital, and also added machinery to their present plant that will increase their present output of machines 50 per cent. This was necessitated by the increased demand for their incubators in 1898, after they had added to their already high-grade machines their patented automatic ventilation and temperature regulators. It would pay you to send for their large catalogue. Their factory is 16 Adams Street, Delaware City, Del.

#### TRANSFER OF STOCK.

This is to certify that I have sold and shipped to Mr. C. C. Townsend, of Route 3, Greenbank, West Chester, Pa., my entire stock of my celebrated "Cymro" strain of American Dominiques, and as I do not expect to breed them any more, I hereby recommend Mr. Townsend to all wishing American Dominique fowls or eggs. Have had business dealings with him for years and always find him pleasant to do business with.

[Signed.] R. W. ROBERTS,  
Camroden, N. Y.

#### A NEW PLANT.

"Owing to the great demand for my Barred Rocks," writes Mr. J. B. Kime-nour, of Belvidere, N. J., "I have been obliged to secure larger quarters, and



FIRST-PRIZE BUFF LEGHORN COCK AT MADISON SQUARE GARDEN, FEB. '98, Bred and Owned by Ezra Cornell, Ithaca, N. Y.





A KIMENOUR PULLET FROM PHOTO.  
Weight 8 1/2 lbs.

so I have bought the best place for this purpose in Northern New Jersey. The grounds contain 17½ acres, with fine shade, and they are now being fully equipped with about \$10,000 worth of buildings. On the place are ten excellent springs, one stream running by the building containing many fine trout. I expect to stock it yearly. Back of the plant a half mile runs the Delaware River, and at this point is a two-mile eddy with the finest fishing on the river. The D. L. & W. R. R. runs by the grounds, and one-half mile away is the junction of this line and the Pennsylvania Railroad. We are two hours from New York and three from Philadelphia. The celebrated summer resort, Delaware Water Gap, is only seven miles away. So it will be seen that the location is unexcelled. I shall endeavor to make this plant one of the finest in the United States. Because of the demand for my Rocks I shall keep only two pens of S. C. B. Minorcas—the cream of my flock. I have this year ten pens of Barred Rocks. Egg orders for present and future delivery are coming in rapidly, and I must soon close the books, as I shall need a number of eggs for my own use. In addition to my poultry I shall breed extra fine St. Bernard, Setter, and Pointer dogs. I will cheerfully answer all correspondence, but I respectfully ask that only those who mean business write me, as I answer all inquiries by personal letter, preferring this method to the use of circulars, and naturally it entails a great deal of labor." Address, J. B. Kimenour, Belvidere, N. J.

IT'S WHAT THEY ALL SAY.

From East, West, North, and South comes the same report.

Trinidad, Guanajuato,  
Mexico, Jan. 4, 1899.

GEO. H. LEE CO.,  
Omaha, Neb.

I received the can of L. L. K. which you sent me last fall or summer. I was very, very much pleased with it and believe it is just "the thing" for lice.

Very truly yours,  
WINFIELD SCOTT.  
Kosciusko, Miss.,  
Jan. 7, 1899.

GEO. H. LEE CO.,  
Omaha, Neb.

Last year I got hold of some of your

Lice Killer and liked it so well I want to know if I can buy it nearer home or not, and if I can't, want to know what a half-gallon can will cost me. It is the finest thing I ever saw for mites or chicken lice. Write me.

Respectfully,

J. H. LOVE, M. D.  
Cuba, Ills.,  
Feb. 5, 1899.

GEO. H. LEE CO.,  
Omaha, Neb.

Received one-half gallon of your L. L. K., and applied it to the roosts according to directions on can, and can say to-night that I have a clean flock of fowls. I also used a box and painted the bottom with L. L. K. and when I released the fowls just one hour later could not count the dead lice in the bottom of the box. I am well pleased with your Lice Killer.

Yours truly,  
M. L. HILTON.  
Spokane, Wash.

GEO. H. LEE CO.,  
Omaha, Neb.

I used your Lice Killer last year and it worked like a charm; my poultry are now free from all insects. \* \*

SAMUEL J. MARTIN.  
South Norwalk, Conn.,  
Feb. 6, 1899.

GEO. H. LEE CO.,  
Omaha, Neb.

I received the articles by express, and I am well pleased with them, the Ger-



F. L. LANDON.

mozone curing chickens of roup which ten other remedies that I tried failed to cure. The Germozone cures and Lee's Lice Killer kills, for I have the proof of it in my poultry-house. I think I can dispose of some of your goods here.

Yours very truly,  
C. R. HOYT.

Bay Settlement, Wis.,  
Feb. 15, 1899.

GEO. H. LEE CO.,  
Omaha, Neb.

I think that your Lice Killer is the best thing on the market, also your Tonic Powder. I think it is a great egg producer. This spring I am going to build up a large hennery. I do not dread lice so much since I heard of your Lice Killer. I would not be without it for any money. Whenever I am in need of things I will favor you.

Yours respectfully,  
WILLIAM DENIS.

Montclair, N. J.,

Feb. 16, 1899.

GEO. H. LEE CO.,  
Omaha, Neb.

The Lice Killer works to perfection and is the best stuff I have seen for the purpose.

Yours truly,  
D. B. DENNIS.  
28 Montclair Ave.

A PROMINENT BREEDER.

We show herewith a portrait of F. L. Landon, Elmira, N. Y., proprietor of the Queen City Poultry Yards. Mr. Landon is one of the foremost fanciers and breeders in the East. He has long been prominently connected with the poultry interests in his section, having been president of the Elmira Poultry Association, and is at present treasurer of the same.

Mr. Landon has been a breeder and fancier of thoroughbred poultry since boyhood. He is at present breeding Light Brahmas, White Plymouth Rocks, Single Comb White Leghorns, Silver Spangled Hamburgs, and White Crested Black Polish. To these varieties he devotes his time and energies, and has had many successful results in the show-room. We would suggest that our readers who wish birds or eggs from the above varieties, write him for prices of his stock. He guarantees satisfaction to all purchasers.

**Victory! Victory! Victory!**

== Crowns my ==

**Barred  
Plymouth  
Rocks..**

A Manila and a Santiago battle in Madison Square Garden, and my victory as complete.

NEVER since poultry shows were started did any breeder of any variety even Approach my grand sweep at the late New York show.

**Read!!!** 1st and 3d on cocks;  
1st and 2d on hens;  
2d, 3d, 4th, and 5th on  
cockerels; 1st, 2d, and 3d on pullets;  
1st, 2d, and 4th on exhibition yards.  
These are regular prizes only. In the  
Specials I WON ALL including Grand  
Silver Challenge Trophy Cup for best  
cock, hen, cockerel, pullet, and yard;  
also the Sweepstakes special for BEST  
PLYMOUTH ROCK hatched in 1898, and  
the President's Cup for best cock, hen,  
cockerel, pullet, and yard. This, to say  
nothing of my past record, eclipsed ALL  
OTHERS.

**50 COCKERELS**

Of same breeding, strong in undercolor, and  
straight barred from \$5 to \$10 each.

**75 PULLETS**

\$3 to \$5 each.

EGGS: 13 for \$5; 26 for \$9; 39 for \$12. From  
choicest matings.

C. H. WELLES, Stratford, Conn., U. S. A.



## Classified Advertisements

Fully prepaid advertisements of thirty words or less inserted under this heading at the following rates:

One time.....	\$ .50
Three times.....	1.00
Six times.....	2.00
One year.....	3.50

### READ CAREFULLY.

Copy may be changed as often as desired, though we advise running a standard ad. when possible, in order that buyers may become acquainted with it. Length of ad. is not limited, but additional words will be charged at the rate of 1½ cents each for one insertion, or 1 cent each for each insertion when run three times or more. Initials and figures count as single words.

### PLYMOUTH ROCKS

#### BUFF PLYMOUTH ROCKS ONLY.

Now "Old Glory" proudly waves o'er Porto Rico: The Philippines are ours, and Cuba free; Vast armies must be paid, you can meet the taxes laid.

By breeding Burdick's "Nuggets," don't you see?

My strain is well known as producing the winners at all the leading shows, Chicago, '99 included. Matings for 1899 surpass anything before attempted. January and February eggs half price. Eggs that hatch, for March, April, and May \$3 for 15. After May eggs again half price. Breeding and exhibition stock always reasonable. Write, H. S. BURDICK, Rome, N. Y.

**WHITE ROCKS EXCLUSIVELY.** Bred for practical and exhibition purposes. Two firsts and one second from three entries, Hagerstown, 1898. First and second hens, second cockerel, Washington, D. C., 1899. Eggs, \$1.50 per 13. Stock for sale. J. F. DEFANDORF, Garrett Park, Md.

**REMEMBER MY E. B. THOMPSON** Barred Plymouth Rocks. You will be left outside if you don't get some of my stock. Cock and cockerels for sale cheap. Eggs for hatching. H. T. BROWN, Walkill, N. Y.

**BARRED PLYMOUTH ROCKS EXCLUSIVELY.** Thompson strain. Eggs for hatching from six choice well-mated yards. \$1.50 per 15, \$5 per 100. H. E. KIPP, Red Hook on Hudson, N. Y.

**GOLDEN BUFF ROCKS** (Burdick). Pen direct from Foster, who won 1st on birds at Hagerstown and Johnstown. Good breeding pullets for sale. Eggs anytime. Write, J. D. STUDLEY, Gowanda, N. Y.

**BARRED PLYMOUTH ROCKS.** Thompson & Bradley Bros' strains. Eggs from fine large birds \$2 per 13. "Fertility of eggs guaranteed." T. H. HARTMAN, Fullerton, Lehigh Co., Pa.

**BARRED PLYMOUTH ROCKS,** from the best strains. My yards are mated with birds that are fine in shape, color and markings. Eggs \$1 per 13. W. J. WELLS, St. Peters, Pa.

**FIRST-PRIZE BUFF ROCKS.** Saratoga, '94, '95, '96, and '98, 1st cock, 1st chl., 1st and 2d hen, 2d pullet, 1st pen, 10-lb. cock, 8-lb. hens. Lemon-buff, clear wings, buff tails. Exhibition birds a specialty. Eggs, \$1.50. N. V. WITBECK, Burnt Hills, N. Y.

**OVERBAUGH'S BARRED PLYMOUTH** Rocks. Won at Mt. Gretna 1898, 1st and 2d cock, 1st and 4th hen, 3d cockerel, 3d pullet, \$5 gold special and Pennsylvania State Poultry Association Bronze Medal for best display. Eggs \$2 for 13. "Hub" 1st Boston cock, heads one of my yards. Also Buff P. Rocks and Buff Leghorns. Catalogue free if mention The Feather. W. H. OVERBAUGH, JR., Hanover, Pa.

**BUFF PLYMOUTH ROCK EGGS** \$1 per setting; \$4 per hundred. M. E. COOKE, Sandwich, Mass.

**BUFF PLYMOUTH ROCKS.** Strong, vigorous birds buff to the skin. Stock for sale. Incubator eggs, \$4 per hundred. Circular free. JAS. H. CORWITH, Water Mill, N. Y.

**BARRED PLYMOUTH ROCKS** exclusively. First-class stock for sale. Large, grand shape and blue barred. Cockerels at \$2 to \$4 each. We are especially strong in fine pullets, good color, and clean yellow legs and beaks. Your money back if not as represented. Write, J. F. HOLLENBECK, Afton, N. Y.

**BARRED PLYMOUTH ROCKS.** Be in line with prize winners next fall. Get eggs early from my superior high-scoring birds. Write me. T. A. SOMDAL, Mansfield, Ill.

**BUFF PLYMOUTH ROCKS ONLY.** "Pure Burdick strain." No more stock till fall. Eggs from select, high-class birds only, \$2 per 13. Winners among them; satisfaction guaranteed; try me. VERNON K. DAYHOFF, Chewsville, Md.

**JUST LISTEN!** White P. Rocks exclusively. Won all firsts at North East, Fredonia, Erie. Pullets scoring as high as 95%, headed by our celebrated cockerel, "Victor," 94%. Eggs, \$2 per 15. Address, C. W. PAGE & SON, North East, Penn.

**HOME OF THE BLUE BARRED P. ROCKS.** Ringlet strain. Six grand breeding-pens for 1899. My stock is pure bred and finest and best quality. My birds are blue to the very skin. Give me your order; I can please you. Eggs, \$1 per 13; \$2 per 26. DR. ANDREW BURT, Tamaqua, Schuylkill Co., Pa.

**WHITE PLYMOUTH ROCKS** Exclusively. Pure white, first prize wherever shown. Eggs, \$2 per 15. Satisfaction guaranteed, circulars free. Member Advisory Board American White Plymouth Rock Club. I. F. SCHOTT, Box 175, New Pittsburg, Ohio.

**WHITE ROCKS** (Hawkins, Empire), Barred Rocks (Thompson, Hawkins). Choice breeding cockerels, \$2 each. Eggs, \$1 per 15; \$5 per 100. LYON & SONS, Spring Hill, Pa.

**INTRODUCTION OFFER.**—To convince the poultry raiser that we have standard-bred Barred Plymouth Rocks, for this season we offer eggs at only one dollar per setting, or \$6 per hundred. We have a combination of the best strains in this country. Satisfaction guaranteed. Reference, First National Bank. Address, W. H. YENNEY, Glassboro, N. J.

**BUFF PLYMOUTH ROCKS,** Nuggets only. Won at Pennsylvania State Fair bronze medal; at Coatesville recent show, blue and red ribbons. For six years they are no strangers. Eggs, best mating, \$1.50 per setting; two settings \$2.50; \$4 per 50. KERLIN & SON, Shekel, Pa.

**WHITE ROCK POULTRY FARM.** White Plymouth Rocks exclusively. Winners at the following shows: Saratoga, Cambridge, Sandy Hill, and Troy, 1898. High-scoring birds for sale. Eggs, \$1.50 per 13; 3 settings \$4. J. F. WITBECK, Box 48, Burnt Hills, N. Y.

**RAISE YOUR WINNERS** and next year's breeders. I can furnish eggs that will produce them. Buff, White, and Barred Plymouth Rocks, Golden Wyandottes, and Black Minorcas. Eggs, \$1.50 per 13. Satisfaction guaranteed. Catalogue free. A. G. CLEMMER, Morwood, Pa.

**EGGS! EGGS! EGGS!** From beautiful Buff Plymouth Rocks at \$1.50 per 13; \$2.50 per 26. My Buffs are the noted Wilson strain, bred from prize winners at the large shows. Also offer large, elegant White Wyandotte cockerels at \$2 each; pure strain and beautiful white birds. Address, CLINTON ELLIOTT, Lock Box 483, Sag-Harbor, N. Y.

**BUSINESS BUFFS ON BUSINESS BASIS.** On stock sales satisfaction guaranteed. On eggs for hatching, if less than half hatch, duplicate at half price. If less than fourth hatch, duplicate free. Something for your money every time. Pen marks on eggs, so customer can mate up from his hatch. Our strain of Buff Rocks ranks among the best in the country. Eggs, \$2 per 13 straight. WILSON BROS., Sag-Harbor, N. Y.

**MY BUFF PLYMOUTH ROCKS,** at Washington this season, won 1st on hen, 1st on pullet, 4th on cockerel, and four specials. Write for circular giving other winnings. Some stock for sale. Fertile eggs, \$2 per 13; \$4 per 30. MILES LOUER, East Onondaga, N. Y.

**ROOKER'S BUFF ROCKS,** were winners at Madison Square Garden, Buffalo, Chicago, Hagerstown, Rochester, and others. Stock and eggs for sale cheap. Stamp for circular. Vice-President Buff Rock Club, for State New Jersey. J. E. ROOKER, Box 202, Washington, N. J.

**BUFF ROCKS.** 12 Premiums at Boston, 1899. Circulars. FIELD & SON, Somers, Conn.

**WHITE PLYMOUTH ROCKS THAT WIN.** Chicago, 1899, won 1st and 5th pullet, 4th and 5th hen, 5th cock, 2d pen tie 1st Indiana State show, 1899. 1st, 2d, 3d, and 4th cockerel, 1st, 2d, 3d, and 4th hen, 1st pullet, 3d cock, 1st and 2d pens. Eggs only \$3. Circular. R. M. GARD, Frankfort, Ind.

**EGGS** at \$1.50 per 15, from large Blue Barred Rocks, barred to the skin, yellow beaks and legs. Have bred them fourteen years. J. R. LANE, Fort Edward, N. Y.

**BUFF P. ROCKS EXCLUSIVELY.** Eggs of fine stock, \$1 per 15; \$2 per 40; \$3 per 60. Also 300 Fancy Pigeons, White A. Guineas, Wild Geese, Bees, and Belgium Hares. Circulars free. A. S. SWARTLEY, Line Lexington, Pa.

**FOR SALE.** Thoroughbred Ply. Rocks and White Wyandottes. Eggs for setting, one dollar for 13. Also a few White Wyandotte cockerels, three dollars each. Cash with order. Address A. M. SHETLER, 24 Amesbury St., Lawrence, Mass.

**BARRED PLYMOUTH ROCKS** from leading strains that are standard bred. Eggs from choice matings, \$1 per 13. R. C. W. Leg. sold. LEW H. STEWART, 940 W. Ninth, Erie, Pa.

**HUDSON RIVER POULTRY FARM,** Poughkeepsie, N. Y. Breeders of America's best Buff and Barred Plymouth Rocks. Eggs from prize matings, \$2 per 15. Incubator eggs from Barred Rocks, \$5 per 100. Catalogue free. Good hatch guaranteed. EDGAR BRIGGS, Mgr.

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**BUFF ROCKS, BURDICK AND WILLSON** strains, 13 eggs, \$2; 30 for \$4. Barred Plymouth Rocks, 13 eggs, \$1.50; 30 for \$3. L. E. SMITH, Granger, Ind.

**THE UP-TO-DATE STRAIN** of Barred Plymouth Rocks. Catalogue for stamp. Stock for sale. Eggs, \$1 per 13. Guarantee satisfaction. If you wish high quality at a fair price, Address, J. M. PORTER, Morristown, N. J.

**BARRED PLYMOUTH ROCKS.** Only first-class stock kept; raised on the farm and new blood introduced each year. Eggs, \$1 per 15, and none better. NANNIE LEVIER, Fisher P. O., Penn'a.

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**BROOKLAND POULTRY YARDS,** Brookland, D. C., are now offering 15 Brown Leghorn eggs for \$2, and 13 Buff Plymouth Rock eggs for \$2, from winners of 51 regular, 8 special prizes, at Washington, D. C., 1899, Coatesville, Pa., Hamilton, Va., Southern Md. Fair, Marlboro, Md., and Rockville, Md., 1898. Write R. C. BOOTH, Mgr.

### LEGHORNS

**CEDAR HILL POULTRY FARM**—Write to Cedar Hill Fruit and Poultry Farm for prices on Single Comb Brown Leghorn, Barred P. Rock, Buff Cochins and Light Brahma fowls and eggs. Some fine surplus cockerels of first-named breeds for sale low. Eggs for incubator use \$5 per 100; good common eggs (large breeds), \$2.50 per 100. R. S. COLE, Harmans, Md.

**FORSYTH STRAIN** S. C. BROWN LEGHORNS. 33 prizes on 33 entries at Rochester, Dansville, Hamburg, 1897-8-9. Fine young and old stock for sale cheap that will score in the 90's. Circulars free. FRANK G. RICE, Dansville, N. Y.

**S. C. BROWN LEGHORNS.** Tenth season. Eggs, \$1. Choice Cornish Indians, Light Brahmas and B. P. Rocks' Eggs, \$1.50. HOWARD A. PINNEY, Sheffield, Warren Co., Pa.

**WE HAVE LAYING QUALITIES,** size, typical shape, standard color, in S. C. B. Leghorns; what more can you ask? Eggs, \$1.50 per 13; \$2.50 per 26. W. B. GERMAN, Specialist, Millville, Pa.

**BUMP'S S. C. WHITE LEGHORNS** made nearly a clean sweep at Cambridge and Johnstown last fall. Eggs from my best mating \$2 per 15; \$5 per 100; from birds with free range. A few good cockerels at \$2 each. White Holland Turkey eggs \$2 per 13. H. V. BUMP, Cambridge, N. Y.

**50¢ PER DOZEN,** \$3.50 per hundred, Wyckoff strain. White Leghorn eggs. Circular free. S. J. BISHOP, Cheshire, Conn.

**OUR BUFF LEGHORNS** and **GOLDEN** Wyandottes win for us and they will win for you. At Painesville and Ashtabula they won 26 premiums. Our birds scoring as high as 90% points. Eggs, \$1.50 per setting. C. F. BLACKMON & SON, 116 South St., Painesville, Ohio.

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**50 S. C. BROWN LEGHORN** cockerels and pullets, sired by first prize cockerel, Hamilton, Va. and Hagerstown, Md., 1897. Also 150 Barred and Buff P. Rocks, Buff Leghorns, and Black Langshans, sired by males direct from Thompson, Burdick, Arnold, and Robinson, price \$1 to \$3 each. Eggs, \$1 per 13; \$2 per 30. **ROCHELLE POULTRY YARDS**, G. W. WAYLAND, Prop., Rochelle, Va.

**WAYNE POULTRY YARDS**, Coatesville, Chester Co., Pa. J. H. SCHERER, Prop. S. C. B. Leghorns and White Wyandottes. Winners at the following shows in 1897 and 1898: Pottstown, Scranton, Mt. Gretna, Carlisle, Sanatoga, Coatesville, Pa., Seneca Falls and Madison Square Garden, N. Y. I have a pen of Browns that won 2d at New York. Leghorn eggs, \$1 per setting; Wyandottes, \$1.50. Stock for sale. My stock is producing prize winners for my customers.

**75 CENTS PER 15**, \$4 per 100, for eggs from Single Comb White Leghorns Knapp Bros.' strain direct. Good hatch guaranteed. Orders booked for future delivery. **CYRUS AULENBACH**, Rehrersburg, Pa.

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You will run no risk in buying **HUNT'S SUPERIOR BEST F RIZE** R. C. Brown Leghorns **BUSINESS O R PROFIT** R. C. Black Minorcas **BREEDS R P LEASURE**. My "Superior Strain" is giving universal satisfaction to my customers, among whom are some of the most prominent breeders in the U. S. Circ. free. **C. I. HUNT**, Nunda, N. Y.

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**BUFF LEGHORNS EXCLUSIVELY.** I breed the "buff" recognized by the Standard, rich golden plumage and prolific layers. Have won wherever shown. Eggs, \$1.25 per 15. Incubator lots at reasonable rates. Fine stock a matter of correspondence. **L. H. WOODRUFF**, Shick-shinny, Pa.

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**SILVER LACED WYANDOTTES** exclusively. Ten years' experience with this breed alone and I think I have as good stock as any one, although my prices are not as high as some. If you want either fowls or eggs write me and I will do my best to please you. **C. N. GILBERT**, Flint, Mich.

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**EGGS**, \$1 per 15. Red Caps, B. Minorcas, G. Polish, Buff, B., & W. P. Rocks, S. L. & W. Wyandottes, Buff & P. Cochins, L. Brahmas, S. & R. C., W. & B. Leghorns, Buff Leghorns, P. Ducks. Fine breeders up to standard. Catalogue free. P. E. TWINING, Kipton, Lorain Co., Ohio.

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**D. H. COSMAN**, Box 258, Newburgh, N. Y., breeder of White Rocks, White Wyandottes, and S. C. White Leghorns. Won 9 regular and 4 special prizes on 13 entries at Newburgh, Jan., '99. Stock for sale. Eggs, \$1.50 per 15; \$2 per 30.

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**S. C. B. MINORCAS** (Northup stock), W. Wyandottes (Duston), W. P. Rocks (Hawkins), and Pekin Ducks (Rankin's direct). Eggs, \$1 per 15; \$5 per 100. C. L. McFERREN, Darlington, O.

**EGGS FOR HATCHING** from Buff Rocks, Buff or White Wyandottes, Cornish I. Games, R. C. White Leghorns, 15 for \$1.50; Black Wyandottes, R. I. Reds, \$2; R. C. Black Minorcas, \$2; R. C. White Minorcas, \$5; Bronze Turkeys, \$2.50 per 10. From as fine breeders as America can produce, safe arrival guaranteed. Illustrated catalogue free. J. M. MAXWELL, Pattenburg, N. J.

**GREAT sacrifice sale** of Barred Ply. Rocks, White and Black Minorcas, winners at New York State Fair, Binghamton, Elmira. Must sell 400 at once. Write and I will give full pedigree of stock. Now is the time to get a bargain in extra fine poultry. Eggs, \$1 per setting. GEORGE V. CLARK, Cortland, N. Y.

**EGGS FOR HATCHING**. White and Cornish I. Games, \$1.50 per 15. Buff Rocks and Buff Wyandottes, \$1 per 15. Stock guaranteed. Stamp for reply. H. B. SWARNER, Plainfield, Pa.

**BUFF ROCKS and WHITE WYANDOTTES** as good as the best. Eggs, \$1.50 per 15. Pekin Ducks, Rankin's strain direct, no better birds on this continent. Eggs, \$1 per 11. All stock farm raised. Satisfaction guaranteed. S. F. BOOCHER, North Manchester, Ind.

**EGGS FOR HATCHING**, from standard-bred, strong, vigorous, farm-raised stock. Buff, White and Barred Plymouth Rocks, White Wyandottes, and Light Brahmas. Eggs from correct matings, \$1.50 per 15. Satisfaction guaranteed. MELVILLE POULTRY FARM, Gansevoort, N. Y.

**26 EGGS FOR ONE DOLLAR**. Leghorns, Rocks, and other leading varieties. Among first-prize winners at winter shows. Choice birds for sale. Write for your profit. HARRY MYER, Saugerties, N. Y.

**HOOPER'S LICE FORMULA**—Kills insect life with lightning despatch. Rough on Lice, Mites, Redbugs, Ants, Roaches, Fleas, etc., exterminates with magical effect. Cheap, harmless, easily applied. Postpaid for 10 cents (Stamps). F. L. HOOPER, Box 2, Station D, Baltimore, Md.

**COL. JOSEPH LEFFEL**, Springfield, Ohio, has for sale all breeds of Poultry, Pigeons, Pheasants, Rabbits, Ferrets, Guinea Pigs, Cats, Goats, Dogs, Shetland Ponies. Two-cent stamp for circular.

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**BUFF AND WHITE LEGHORNS**, B. Minorcas, Cockerels and pullets \$1 each. White and Buff P. Rock cockerels and pullets \$1.50 each. Eggs in season. L. BROWN, Sturbridge, Mass.

**FOR SALE! BARGAIN!** 2 Von Culin 80-egg Incubators, have six; room for but four. Price, \$15, complete; perfect condition. J. R. RISDON, Brookland, D. C.

**GOOD BARGAIN!** 15 eggs for \$1, considering my stock. They are from some of the very best breeders and stock in this country. My stock scores from 90 to 94½ points. Send me one order and I assure you you will be pleased with the result. From the following brands: White Wyandottes, Black Langshans, Black Minorcas, Brown and Buff Ply. Rocks, White Leghorns. Address, J. E. BLACK, Fairfield, Ill.

**FOR SALE!** Belgian Hares, Beaver Dam winners, and young stock. Bull Terrier, female; Pair Pea Fowls. Write for prices. Mention The Feather. FRED BRADLEY, Hampden, Wis.

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**BANDS!** We don't aim to sell the cheapest, but the best poultry and pigeon bands made. Several styles and prices. Illustrated circular free. Sample for stamp. CHARLES COLLINS, West Lebanon, N. H.

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**BUFF COCHINS EXCLUSIVELY** for 20 years. GEO. BALL, 24 Milton Ave., Rahway, N. J. Eggs, \$2 per 13.

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**MASSIVE COCHINS**, solid buff, heavy feathering, standard shape, wonderful layers. 15 eggs \$1.25. Good hatch guaranteed, distance disregarded. Worth twice the money. Write LOUIS LUNDBERG, 505 Fifth Street, Rockford, Illinois.

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**AT MADISON SQUARE GARDEN**, '99, MY Light Brahmas won three firsts, three seconds, one fourth and two Silver Cups. Eggs from pen headed by first cockerel or second cock, \$4 per 13. ALBERT L. SESSIONS, Bristol, Conn.



**BUFF WYANDOTTES EXCLUSIVELY.**—Piser and Mattison strains. Winners of 22 prizes and specials, at Mt. Gretna, Coatesville, and West Chester, Pa., 1898. Eggs, \$1.50 per 15. H. B. HARK, Paradise, Pa.

**WHITE WYANDOTTES, WHITE ROCKS.**—Winners, scoring 90 to 94. Breeders selected by Chas. McClave. Stock for sale. Eggs, \$1.50 per 15. Satisfaction guaranteed. Correspondence solicited. C. W. SOUTHWORTH, Dowagiac, Mich.

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**WHITE WYANDOTTES EXCLUSIVELY.**—Standard bred, prolific layers. A fair hatch guaranteed. Eggs, \$1 per 13. GEORGE C. ARMSTRONG, Nyack, N. Y., Box 620.

**BUSINESS BIRDS.** White Wyandottes exclusively. Duston and Knapp Bros. strain. Prolific layers. Eggs, \$2 per setting 15; 3 setting \$5. Circular for the asking. Mention The Feather. RALPH WOODWARD, New Rochelle, N. Y.

**CHAS. E. SELCHOW,** Port Chester, N. Y. White Wyandottes from the finest stock in the country. Buff Leghorns from Blood and Shepherd strains. Wyandottes headed by cock in pen, second at New York. '99. Eggs, \$2.50 per thirteen.

**WARE SHOW,** on my "Silvers" I won 4 firsts, 1 third, 5 specials. First-prize hen 92%, weighed 8 lbs., in laying condition. Standard weight birds, dark-egg strain. Eggs, \$2. Stock for sale. R. G. WILLIAMS, Barre, Mass.

**STANDARD-BRED WHITE WYANDOTTES.**—Hardy, vigorous, prolific layers. Eggs, \$1 per setting; \$5 per 100. "Pekin Ducks" extra large eggs same price. Some fine stock for sale. HUNSBERGER BROS., South Hatfield, Pa.

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**WHITE WYANDOTTES EXCLUSIVELY.**—Bred from Forsyth and Knapp strains. Farm raised, free range. Brown eggs, \$1 per 15, or \$5 per 100. LETITIA THOMPSON, Penns Park, Pa.

**D MULLEN,** Indiana, Pa., Partridge Wyandottes, White Wyandottes, and Golden Penciled Hamburgs.

**BUFF WYANDOTTES.** 12 Premiums at Boston, 1899. Circulars. FIELD & SON, Somers, Conn.

**THE TERRACE POULTRY YARDS.** White Wyandottes exclusively. Beauty and utility combined. Winners at the following shows in 1898: Mt. Gretna, Pa., Hagerstown, Md., West Chester, Pa. Eggs, \$2 per 13. ALLEN C. ROBERTS, Spring City, Pa.

**BUFF WYANDOTTES.**—Made 38 entries at Madison Square Garden, N. Y., Washington, D. C., Hagerstown, Md., Mt. Gretna, Pa., Poughkeepsie and Middletown, N. Y. Won 20 firsts, 7 seconds, 2 thirds, 3 fourths, 1 fifth, and 11 specials including a 400 egg P. S. Incubator; \$5 Gold State Medal, etc. Eggs, from solid buff birds \$3. Catalogue free. DANIEL L. STAUFFER, Spring City, Pa.

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**BLACK MINORCAS EXCLUSIVELY.**—Northup strain. Fine, large, vigorous, healthy birds, bred from my Washington prize winners. Stock and eggs for sale in season, good hatch guaranteed. THE FEATHER, one year with egg order. E. D. CROUCH, 1013 G Street S. E., Washington, D. C.

**BLACK MINORCAS.**—Choicest birds from the flock owned by the late John M. Lown. Garland and Royal strains. Eggs, \$1 per 13. MRS. J. M. LOWN, Bennettsburg, N. Y.

**I HAVE PURCHASED** the entire stock of Black Minorcas from Wilcox & Son, Wilkes Barre, Pa. Fine birds for sale. Write for prices of eggs and fowls. L. J. WILLIAMS, York, Pa.

**CALUMET STRAIN BLACK MINORCAS** are of superior quality, large size, true Minorca shape and color. Bred for exhibition and utility. Eggs, \$2 per 13. FRANK H. GERISH, Haverhill, Mass.

**ROSE COMB BLACK MINORCAS** (Northup strain). My birds scored as high as 93 points at show. Eggs for hatching, \$2 per 13; \$5 per 40. WM. G. HUNTER, Peterboro, N. H.

**JOE KRENN,** 114 Beecher St., Syracuse, N. Y., breeder of prize-winning Black Minorcas noted for size and color. My Minorcas won at Seneca Poultry show in 1897, out of 3 entries took 1st, 2d, and 3d. Score. 95, 94, 93½. Eggs, \$2 per 13; \$5 per 40.

**BELMONT STRAIN BLACK MINORCAS** contain the best Minorca blood in the country. They are all standard weight or over, and are extra good in all other points, especially as layers. Eggs at \$1 per 13, and satisfaction guaranteed, or I will refund your money. Write me. O. W. TAYLOR, Tyrone, Blair Co., Pa.

**BREEDERS AND SHIPPERS** of Champion Black Minorcas. Most fashionable and prize-winning strains in the land. Also Black-tailed Japanese Bantams. Eggs for sale. H. B. GREGORY & SON, Akron, Ohio.

**THOMPSON'S MINORCAS**—Won at Boston, '99, 5 1sts, 1 special, 2 2ds, 1 3d; at New Haven, 1st on cock, cockerel, hen, and 2d on hen and pen. Also bred Buff Rocks. Catalogue. C. A. THOMPSON, Melrose, Conn.

**THAT GREAT CUP.** Arthur Trethaway, Wilkes Barre, Pa., winner of \$250 Black Minorca Cup at New York in the strongest class ever brought together. Stock and eggs for sale. Eggs, \$3. Satisfaction guaranteed.

**A GRAND OPPORTUNITY** to procure high-class Black and White Minorcas and White Wyandottes. Old and young stock for sale. Eggs in season. GLENN H. JOHNSON, Groton, N. Y.

**WHITE MINORCAS.** Bred for practical and exhibition purposes. My yards are mated with birds that are large size, grand shape, fine comb, and superb color. Eggs, \$1.50 per 13; \$2.50 per 26. Satisfaction guaranteed. L. H. MORSE, Newark, New York.

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**F C. BEACH,** Plain City, O., breeder of Black Langshans exclusively. Eggs, \$1.50 per 13. Birds for sale.

**THE BEST BARGAINS EVER OFFERED** in Black Langshans. 8 yearling hens @ \$2; 6 pullets @ \$2; 1 two-year-old cock, \$3; 2 cockerels @ \$2; 6 W. Wyandotte cockerels @ \$2. Must be sold at once to make room. Write quickly. Satisfaction guaranteed. Address F. L. DENTON, Holmes, N. Y.

**WHITE LANGSHANS.** Crystal strain. Fine, large birds, true color and shape. Eggs, \$1 per 13; \$2 per 30. Also a few trios for sale. Satisfaction guaranteed. J. W. TEDRICK, Williamson, Pa.

**I HAVE 50** as fine Black Langshan cockerels as you ever saw. Can let you have a fine breeder for \$2, a better one for \$3.50, and an exhibition bird for \$5. Laying pullets \$1.50 to \$3. Your money back if not satisfied. C. I. DROWNE, Sandown, N. H.

**BLACK LANGSHANS.**—Cockerels and pullets for sale, bred from first-prize winners at Hagerstown, Washington, Pittsburg, Mt. Gretna, and second at Johnstown, N. Y. Eggs, \$3. GEO. SCHRADE, Sykesville, Md.

**BLACK LANGSHANS** and White Plymouth Rocks. Choice strains of both breeds. Eggs for hatching \$1.50 per 13. I have some fine Langshans for sale. FRANK I. AHERN, Box 51, Laurel, Md.

**WHITE LANGSHANS.** At N. Y. '97 and '98, won 5 firsts, 2 seconds, 5 thirds. Eggs, best pens, \$3; others \$2. Also Buff P. Rocks. R. L. BLAIR, Castle Creek, N. Y.

**3021 EGGS FROM MY PRIZE PEN** of large Black Langshans, prince of fowls as winter layers. My way of egg production, and 15 eggs from this pen. \$1. N. G. CUSHMAN, Poultney, Vt.

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**WHITE COCHIN BANTAMS.** Black Cochin Bantams, Buff Cochin Bantams—Young stock for sale bred from New York and Boston winners. No circulars. No eggs. DR. WM. Y. FOX, Taunton, Mass.

**BEAUTIFUL COCHIN BANTAMS**—Buff or White, at \$2 per pair. WM. M. CONNERS, Box A, Weston, Somerset Co., New Jersey.

**BANTAMS BY THE HUNDRED.** I want to sell 100 pairs of Buff, Black, and White Cochin Bantams, price \$2 per pair. ROWLAND G. BUFFINTON, Box 677, Fall River, Mass.

**HOW IS THIS?** Washington, Hackensack, Elmira, and West Chester, Hartford, Boston, and New York, 30 entries, 34 prizes on Silver Seabright Bantams. Stock for sale. Sell no eggs A. C. TREICHLER, M. D., Elizabethtown, Pa.

**AT WASHINGTON,** D. C., won 15 prizes on 13 entries, on Golden and Silver Seabrights, Silkies, Bearded and Non-bearded White Polish, Buff, White, Black, Partridge, and Cuckoo Cochins, Brown Red, Red Pyle, and Birchen Game Bantams. No eggs. Stock for sale. W. W. WALLICK, York, Pa.

**1ST ON SILVER SEABRIGHT PEN** at Boston, 1899. We have lots of cream of other varieties. Circular free. My Bantam book 15 cents. New England's Largest Bantam Yards. W. W. CLOUGH, Medway, Mass.

**BANTAMS, WHITE POLISH, Black-Tailed Japanese, Golden and Silver Seabrights, Black, White, and Buff Pekin, Silver Duckwing, and Pyle Games, Silkies, Black Spanish, and Cornish fowls.** No catalogue. MARK HURD, Marshall, Mich.

**1ST Buffs, 1st Whites, 1st Silvers, 1st Golden, 1st Blacks, in fact 1st on most every variety of Bantams.** I have a few bargains left, also eggs. W. W. CLOUGH, Medway, Mass.

**L. H. MORSE,** Newark, New York, breeder of Golden Seabright Bantams of the choicest blood. Extra choice birds for sale reasonably that are small size, with rich golden plumage nicely laced throughout. All birds sold on approval.

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**POLISH.** S. F. Gulliford, Akron, Ohio. Importer and breeder of White Crested Black, Bearded Silver, Bearded Golden, and Bearded Buff Laced Polish, also Silkies of the finest quality. It has been my aim for many years to breed these beautiful fowls to the highest standard of perfection. My show record stands as evidence. Birds for sale at all times and eggs for hatching in season.

**CHAS. L. SEELY,** Afton, N. Y., the veteran Polish breeder of America, has a few more White Crested Black Polish breeding birds. Singly, pairs, or trios. Write for my record of over 50 years breeding Polish. Eggs for hatching.

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**HOUDANS AND WHITE HOLLAND TURKEYS.** High-class stock, with free range. Houdan eggs, \$1 per 13; \$3 per 40. Turkey eggs, \$2 per 11. G. A. HOBART, Chittenango, N. Y.

**HOUDANS ONLY.** 32 years of continuous breeding of Houdans for utility and beauty. A sweeping record of prizes won at the great shows of this country. Circular free. Eggs, \$2 per 13; \$5 per 39. Fine cockerels for sale. DANIEL PINCKNEY, South Onondaga, N. Y.

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**WHITE FACE BLACK AMERICANS!** I have bred them 35 years, hence are Americans. Score at shows 94 to 97. Eggs, \$2 per 13. JOHN BENNETT, Sunnau, Ripley Co., Ind.

**W. F. B. SPANISH**—Prize winners at Cedar Rapids, Iowa, January 21, '99, 2d on cock and 2d on hen. Eggs in season; also Fancy Pigeons for sale. P. ANDERSON, Box 221, Marshalltown, Iowa.

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**BUFF COCHINS**—Winners at Mt. Gretna, Hanover, West Chester, York, Carlisle, and Hagerstown, in 1898, and are true Cochin shape, heavily feathered, large size, and proper color. Eggs from above winners, \$3 per 15. ALLEN E. SPANGLER, Hanover, Pa.

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**OUR BLACK JAVAS**—Won five 1st at Boston, 1899. Circulars. FIELD & SON, Somers, Conn.

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**MOTTLED ANCONAS,** handsome birds, great layers. 15 Eggs \$2. Single Comb Brown Leghorns, 15 eggs \$1. A. GORDON, 209 Chestnut St., Towanda, Pa.

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**RHODE ISLAND REDS.** These handsome fowls are prolific layers of large brown eggs. Rose or Single Comb. Eggs, \$1 per 13; \$2 per 30. A. E. CUMMINGS, Hudson, New Hampshire.



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**CORNISH INDIAN GAMES**, Carpenter's prize-winning strain. The Gentleman's Fowl. Stock and eggs for sale. Also breed first-class Black Minorcas, Barred Plymouth Rocks and Muscovy Ducks. H. M. CARPENTER, Sing Sing, N. Y.

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**ANDALUSIANS AND WYANDOTTES**. Blue Andalusians, great layers, large eggs, non-sitters. White Wyandottes, prolific layers of large brown eggs. \$1.50 per 13. S. M. FLINT, Burlington, Vt.

## ORNAMENTAL

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**150 BRONZE TURKEYS**, bred by my 45 and 47 lb. toms, and 22 to 33 lb. hens. For great size, grand plumage, and form my birds have no equal. Sure winners and elegant breeders at fair prices. Stamp for reply. GEO. WOLF, Seneca Falls, N. Y.

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**PEKIN DUCK EGGS**, from prize stock. Ducks are large and heavy layers. Pens headed by prize drakes. Eggs, \$1.50 per 13. P. ANTHONY & SON, Great Barrington, Mass.

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**FOR SALE, EXHIBITION BIRDS** in Pouters, Carriers, Blondinettes, Satinets, Silverettes, Turbids, Frillbacks, Swallows, Snells, Archangels, Dragons, Tumblers, Moorcaps, Magpies, Owls, Nuns, Bruner Pouters, and Black Baldhead Tumblers. Satisfaction guaranteed. J. H. MEHRING, Littlestown, Pa.

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Barred Magpie Tumblers; Saddle Tumblers, (Gorse Stock); Solid Tumblers, (Walton's Stock), long muffed. Also Buff, Black and White Cochins Bantams, \$5.00 per trio. For full description and prices, address with stamp, C. F. CHAMBERLAIN, 1014 Bartlett St., Milwaukee, Wis.

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**HIGH-CLASS BLUE FANTAILS**. The Leonard strain of Blue Fantails are noted for their beautiful style and grand shaped bodies. Pairs and odd birds at reasonable prices. 2-cent stamp for prices. A. D. LEONARD, Mansfield, Mass.

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**FOR SALE**.—Homers and Tumblers in all colors. Also Fantails, Magpies, Pouters, Jacobins. My prices are right and birds first class. LARRY F. GOLDY, East Third Street, Williamsport, Pa.

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**HOMING PIGEONS**, strong flying stock. Large healthy pairs mated for breeding at \$1 per pair. Satisfaction guaranteed. LOUIS E. NEECE, Box 246, Williamsport, Pa.

**AS I AM ABOUT TO MOVE** I will offer my entire lot of Homing Pigeons, 16 pairs. Most of the birds have records from 200 to 500 miles. CHARLES BUCKINGHAM Seymour, Conn.

**HOMING PIGEONS**.—Choice birds from Belgium stock, for flying or squab breeding, young or old, 75c per pair. Write for wants. C. A. PARSONS, Penn Valley, Pa.

**VERDEMONT HOMING LOFTS**.—A choice lot of speedy and reliable trained Homers for sale at \$1 per pair while they last. Bred from record birds from a number of the most noted strains. Pedigrees given and satisfaction guaranteed. C. E. BIRELY, Ladiesburg, Md.

## MISCELLANEOUS

**EGGS FROM FANCY SHOW BIRDS**. Single and Rose Comb White Leghorns, Single Comb Brown and Buff Leghorns, White Rocks, White Guineas and Pekin Ducks, \$1 per 13; \$6 per 100. White and Golden Wyandottes, English Buff Cochins and Partridge Cochins, \$1.50 per 13. Circular on application. P. L. DWIGHT, De Ruyter, N. Y.

**AS GOOD AS THE BEST**, 13 for \$1.50. Bred from prize-winning Buff and Barred Rocks, Buff and White Wyandottes, Buff, Brown, and White Leghorns. S. B. MASON'S, Maytown, Pa.

**LOCUST HILL POULTRY YARDS**. Barred and White Plymouth Rocks, Silver Laced Wyandottes. Eggs for setting, \$1 for 15. Italian Bees and Queens for sale. MRS. A. A. SIMPSON, Swarts, Pa.

**SHERWOODS**—the Ideal Fowl—for fancier farmer, or market, the hardest and best general purpose fowl ever introduced. My stock is from originator of breed, therefore pure. Prize winners at Hamilton. Eggs in season. Circular free. DR. CHARLES B. TURNER, Snickersville, Va.

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**35 PRIZES** including first on White Eggs at Boston, 1898. B. Minorcas, B. P. Rocks, W. P. Rocks, White Wyandottes, and Black Langshans. Eggs, \$2 per setting. Circular. W. T. GREENE, Hopkinton, N. H.

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**NO. "A" BANNER OINTMENT**. A positive cure for Chicken Pox and Swelled Head. 25c per bottle postpaid.

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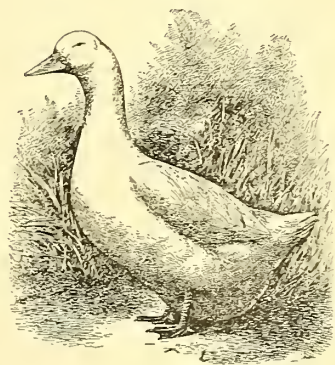
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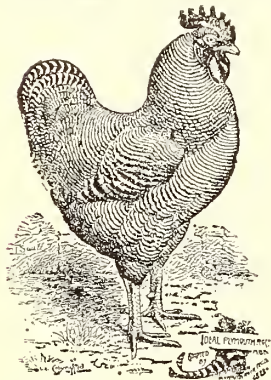
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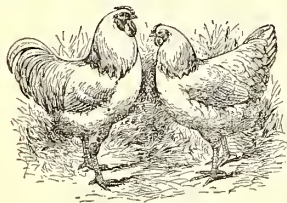
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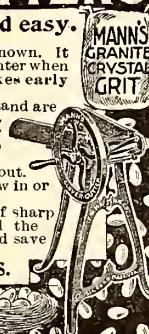
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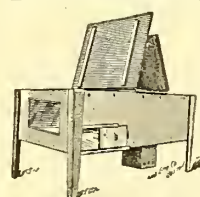
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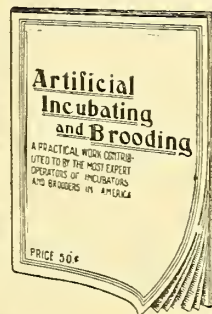
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# KEYSER Breeds America's Leading Strain of Eggs from Finest Prize Birds, \$3 per 13; \$5 per 26.

## BLUE ANDALUSIANS

Winning more prizes and higher honors than any other breeder of this variety in America.

Runt Pigeons and stock for sale. Stamp if convenient. Catalogue free. Satisfaction guaranteed.

A. C. KEYSER, Lower Providence, Pa.

## LINWOOD POULTRY YARDS

Established in 1874.

Chas. McClave, Owner, Box A, New London, O.

Veteran breeder of prize-winning Black Minorcas, P. Rocks, L. Brahmas, P. Cochins, Langshans, Leghorns, Wyandots, Polish, Bantams, Bronze Turkeys, Geese and Ducks. Over 3,000 prizes won by my birds. Hundreds of choice birds for sale at all times. Prices reasonable. Send for fine catalogue telling all about my birds. All stock farm grown, strong, vigorous and healthy. Low rates by express, prompt service, best quality and satisfaction to all.

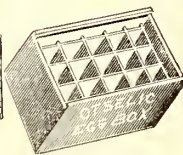
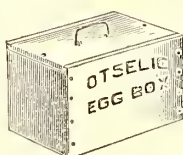
## ...OTSELIC POULTRY YARDS...

W. A. SMITH, Proprietor.

Breeder of Fancy Poultry and Pet Stock. I also Manufacture Egg Boxes.

My prices for '99 as follows:

	per doz.	per 100.
15 Egg Size, \$1.25	\$ 8.00	
30 " " 1.60	11.00	
45 " " 1.95	14.00	
60 " " 2.50	17.00	
75 " " 2.65	20.00	
100 " " 3.40	25.00	



This is the Safest, Neatest, and Best Egg Box on the Market.

Also Hard Wood Rods for Show Coops.

% in. diam't'r.	% in. diam't'r.
2 ft lg, 45c 100	2 ft lg, 50c 100
3 " 55c 100	3 " 60c 100
4 " 65c 100	4 " 70c 100
5 " 75c 100	5 " 80c 100

EGGS FOR HATCHING:

\$1 per 15; \$6 per 100. Golden and Silver Wyandottes, White and Black Minorcas, S. C. White and Brown Leghorns, R. C. White and Brown Leghorns, Anconas, Black and White Hamburgs, Buff, White, and Black Pekin Bantams, and Booted White Bantams, Silver Duckwing Leghorns, Pekin and Rouen Ducks' eggs, \$1 per 11. PET STOCK—Young Belgian Hares, \$2 a pair; young White Angora Rabbits, \$2; young Himalaya Rabbits, \$3; young White English Rabbits, \$1; Guinea Pigs, \$1; Abyssinian Pigs, \$2; Peruvian Pigs, \$3. Address, W. A. SMITH, Whitney's Point, N. Y.

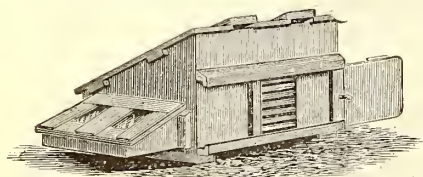
## Arnold's Buff Leghorns..

The Oldest and Best Strain in America.

253 PRIZES SINCE 1890,

At Crystal Palace, England, New York, Boston, Washington, and Hagerstown. Eggs from our best matings (and we believe the best in the world), \$5 per 15; \$9 per 30; \$12 per 45. Eggs from other fine yards, \$2 per 15. We guarantee 10 chicks to each setting. Send for circular to

AUG. D. ARNOLD, Box 78 A, Dillsburg, Pa.



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For a hen and her brood, saves food, labor, etc.; defies all nocturnal enemies, and is the best coop ever used. No agents now, and prices reduced.

1 coop \$3.50; 3 coops \$3.25 each; 5 coops \$3 each; 10 coops and upwards \$2.75 each. Send for descriptive circular.

W. R. HOFF, Owner and Patentee, Rider P. O., Baltimore Co., Md.

## WYANDOTTES

My record at Rochester, 1897-98-99, Mt. Gretna, 1897, Elmira, 1899, proves their quality.

You can not do better than to place your order with me for your eggs, and I will assure you satisfaction. Prices, \$3 per 13; \$5 per 26. Send for circular for 1899.

WM. C. KLEE,

278 Meigs Street,

Rochester, N. Y.

Sec'y and Treas. of American Buff Wyandotte Club.

## BUFF PLYMOUTH ROCKS

My Rocks are from the best strains and are true Rock shape. Won at Rochester, 1899.

## CHICK MANNA



Makes a certainty of growing chicks. If you feed it according to directions you can

**RAISE EVERY CHICK YOU HATCH.**

### It Makes 'em Grow

because it regulates the bowels, promotes good health, begets strong constitution and produces rapid development. Fully endorsed by the thousands who use it. You will be its friend after one brief trial.

Price of Chick Manna } 1 lb. package 10c; by mail 25c. 5 lb. package 40c. 60 lb. case, bulk, \$4.20. Liberal discount to dealers on case lots.

### POULTRY SUPPLIES

of every kind and for all conditions and requirements in our illustrated special catalogue. Mailed free to any address.

Johnson & Stokes, 217 and 219 Market St. PHILADELPHIA, PA.

Have You Smiled Over the clever war souvenir, "THE FLAG THAT WON"? A splendid gift for a soldier friend and contains many fine poems for recitation. It tells: THE TRAGIC STORY OF OUR SPLENDID MAINE; THE FUNNY STORY OF OUR WAR WITH SPAIN; THE MAGIC STORY OF OUR WORLD-WIDE GAIN; THE BRILLIANT STORY OF OUR PEACEFUL REIGN.

By mail, postpaid, 30c.

MYRA V. NORRIS, Cranford, N. J.

## Buff Plymouth Rocks

Select Matings.

Satisfactory hatch guaranteed. Eggs, \$2 per setting, or 3 settings for \$5. Write,

A. L. FAWCETT, New Albany, Pa.

## MERIT MAKES THEM FAMOUS!

## DUSTON'S

## White Wyandottes

At Boston, '99, added lustre to their already famous winnings. He won 1st and 2d cocks, 1st cockerel, 2d pullet, 3d hen, or in all 24 Regular and Special Prizes, including special for

Best 5 Cockerels, Best Cock and 4 Hens, and Silver Cup for Largest and Best Display.

More prizes than any 4 other exhibitors together, and this after furnishing winners for our big shows.

I have mated up the finest breeding-pens I have ever owned and am looking for some grand results.

### FOR BEST EGGS

I get \$3 per set; 4 sets \$10; or \$15 in hundred lots.

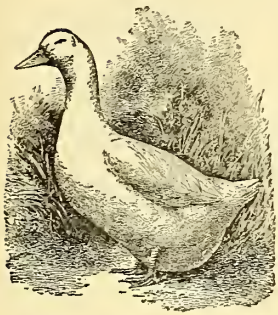
ARTHUR G. DUSTON,

Box A, Marlboro, Mass.



## Letter of Interest....

To all prospective buyers of EGGS FOR HATCHING. Read it. Then come and see us and our Stock, together with America's Greatest Poultry Farm. Visitors welcome.



S. B. CORBY, Mgr.,  
Plainfield Poultry Farm Co.,  
Plainfield, N. J.

Munsey, N. Y., Feb. 3d, 1899.

DEAR SIR: After two years of almost constant business dealings with your company, it gives me pleasure to state that after buying large quantities of eggs from almost all the noted breeders in this country, I have obtained most satisfactory results from the eggs purchased from you. Many of the chicks produced from your eggs I would not hesitate to class with any of the prize winners at the Madison Square Garden, New York show, now in progress. As to their laying qualifications, I firmly believe you have in your possession the most prolific laying strains in this country to-day. I desire to thank you for your most liberal methods of doing business, and for the prompt attention given my orders, and, as a proof of my appreciation, I herewith request that you ship me five hundred more W. Wyandotte eggs and three thousand Pekin Duck eggs at the prices quoted.

Wishing your mammoth farm a continuance of the popularity which you are now enjoying, I remain,

Yours very truly,

C. S. TIEDEMANN.

Overlook Poultry Farm.

WHITE WYANDOTTES,  
BARRED PLYMOUTH ROCKS,

WHITE PLYMOUTH ROCKS,  
S. C. WHITE LEGHORNS,  
MAMMOTH PEKIN DUCKS.

Eggs that will hatch. We guarantee it.

Circular free. Large catalogue 20 cents in stamps or silver.

**Plainfield Poultry Farm Co.,**

S. B. CORBY, Manager.

PLAINFIELD, N. J.

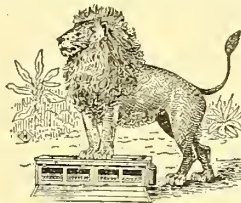
## The Two Monarchs....

Of the two, the MONARCH INCUBATOR is the better, because it is a practical, successful machine, and one that will give greater satisfaction than any other on the market.

All the large New England poultry growers use them, many firms using from 15 to 25 of our 600-egg size. More than 1,000 barrels of dressed poultry shipped to market each season, within a radius of a few miles of our factory, all hatched in "Monarch" Incubators.

Send a 2-cent stamp for illustrated catalogue.

JAMES RANKIN, South Easton, Mass.



## IF YOU HAVE

Birds, Eggs, or Poultry Supplies For Sale try an advertisement in THE FEATHER.



**AT NEWBURG, N. Y., JANUARY, 1899.**

GRAND BREEDING BIRDS AT LOW PRICES.

EGGS, \$3 per 13.

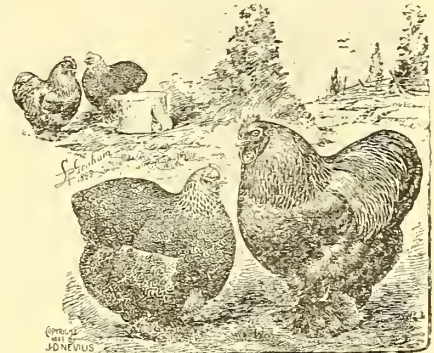
Owing to removal to White Plains, N. Y., in April, surplus stock will be sold at reduced prices. Write for them. Address all orders and letters to

H. T. BROWN, Wallkill, N. Y.

## Lynnhurst Poultry Yards,

Breeders and Importers of

Buff, Partridge, White,  
and Black Cochins,  
Cochin and Japanese  
Bantams.



IF THE best is none too good (and we certainly believe this, then why not buy fowls and eggs where you can get the best? We believe we can furnish them, but if you doubt it then buy where you are sure of getting the best. Our birds do not all score from 94 to 97½ points (we wish they did) nor will they produce only prize winners. Our records in the show-room the past five years may not prove the superiority of our stock, but who can show a better? A 2-cent stamp with your name and address plainly written and sent us will bring you our beautifully illustrated catalogue and price list, giving in detail when and where the following prizes were won, viz: 346 firsts, 88 seconds, 86 thirds, 49 fourths, and over 50 specials. We want your patronage and will in all cases give you entire satisfaction.

THOS. C. ALLEN,  
J. D. NEVIUS.

LYNNHURST POULTRY YARDS,  
GLASSBORO, N. J.

Address all communications to

J. D. NEVIUS, 403 Provident Bldg.,  
Philadelphia, Pa.

## ARE YOUR ••• A. HENS LAYING?

If not, try OVAMEAD, the Great Egg Producer. It acts on the oviduct, and makes hens lay. Enough for 10 fowls 3 months, 50c. postpaid. Trial package, 25c. postpaid.

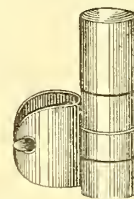
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(PATENTED)

FOR HOMING PIGEONS,

Is the best and only thing invented that will carry a message safely.



It does not come off; does not impede the flight of the bird; can be worn over and over again; is water-tight, and weighs only ten grains; can be fastened and unfastened in a second; saves money, time, and worry; can be used in races, and saves telegrams from liberator, who sends message in Holder; is endorsed by the U. S. Government, and all prominent flyers of pigeons; is a marvel of perfection, and just the thing needed by all breeders and flyers of Homing Pigeons in races, business, and messenger work. Price of Single Holders, 15 cents each prepaid. In lots of ten or more, 12½ cents each prepaid. National Messenger Pigeon Service Blanks, in books of 50 blanks, 25 cents each; in books of 100 blanks, 35 cents each. The blanks are made especially for these Holders. All orders and remittances should be made payable to

GEORGE E. HOWARD & CO.,  
SOLE AGENTS.

S. W. Cor. 8th and H Sts. N. W., Wash., D. C.



## Did It Win The Country.... Barred Plymouth Rocks



First-Prize Cock at New York.

of our breeding in the hands of customers the past season?  
**WELL, DIDN'T IT**

if size and number of shows are counted? From north, east, south and west, both from eggs hatched and stock sold, come the reports of first winnings and at the largest shows. We give the following:—At twenty-two exhibitions our breeding won twenty-two first prizes and our strains won firsts at eight others, with many shows yet to hear from. Stock hatched from eggs we sold took first prizes at some of the largest shows, scoring to 95 points. For one bird, \$100 was refused; \$125 was offered for another, and a third was held at \$100: all bred by us.

**More First-Place New York Winning Males, By Far, Have Been Produced in Our Yards Since 1889 Than in Those of Any Other Breeder....**

These and other winnings show the immense value of our producing lines, and this year we hope to make them better even than ever. We have beaten everyone each time we have exhibited at New York shows. Of our fifty winners there, all were of our breeding except one—that one was our strain.

**EGGS FOR HATCHING** from some of the best matings we ever put up, \$5 per 13; \$9 per 20; \$12 per 30; \$16 per 52. **Grand Breeding and Exhibition Stock for sale.** Carefully mated trios and pens a specialty now. Special prices on large numbers. Illustrated circular free.

**BRADLEY BROS., Box 900, Lee, Mass.**



### Queen City Poultry Yards.

Breeding Stock, Show Birds, and Eggs for sale at all times. PRICES RIGHT. CATALOGUE FREE.

W. P. ROCKS  
S. C. W. LEGHORNS  
LIGHT BRAHMAS  
S. S. HAMBURGS  
W. C. B. POLISH

17 entries, 12 1sts, 3 2ds, and 2 3ds, at the recent Elmira show.

Thoroughbred.  
High-Class.

**F. L. LANDON,**  
P. O. Box 135,  
ELMIRA, N. Y.

A LARGE QUANTITY OF YOUNG STOCK FOR SALE CHEAP.

## THE BUSINESS HEN

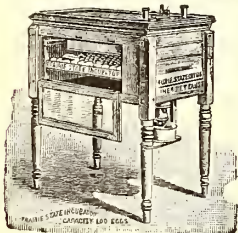
WHITE WYANDOTTES, BARRED PLYMOUTH ROCKS, BUFF WYANDOTTES.

Bred for eggs and meat.

**1st** On BROILERS. "Plymouth Rock, Wyandottes, or Dorkings." **2d** On BROILERS. "Any breed" at Boston Show. Eggs, \$1.50 per setting. "Incubator" eggs, \$5 per 100. Stock in season. **DORSET SHEEP.**

**GREEN RIDGE FARM.**

**WALTER WATSON, Salem, Va.**



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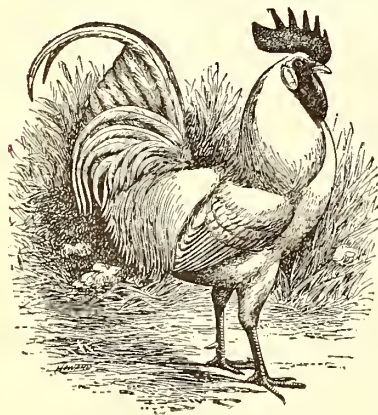
DEALER IN

Fancy Fowls, Birds, Pet Animals, Poultry Supplies,  
712 Twelfth Street Northwest,  
WASHINGTON, D. C.

SOLE AGENT FOR D. C. FOR

The Prairie State Incubators and Brooders,  
Bone Grinding Machines, etc. Send for my free Illustrated Catalogue.

## The Home of the S. G. W. Leghorn.



There is nothing better than

### POWERS' LEGHORNS,

For laying machines: they lay in season, and out of season.

At Clinton (Mass.) show on an entry of 10 birds, 6 first prizes, 3 second, 1 third, and a special.

At Fitchburg show on entry of seven different birds, 1 won 5 firsts, 2 seconds, 3 specials, and a pen scoring 186%.

### EGGS FOR HATCHING....

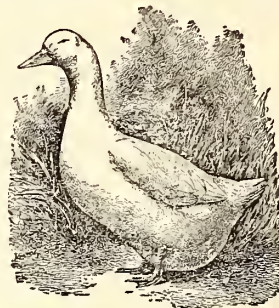
\$2 per 13; \$3 per 20; \$4 per 30; \$5 per 52; \$6 per 65; \$6.50 per 78; \$7 per 91; \$8 per 104.

No birds to breed from less than 90 to 95 Standard points.

**F. G. POWERS,**  
Sterling, Mass.

When writing our advertisers, please mention The Feather.

## Imperial Pekins —AT— Maple Farm Duck Yards.



2,500 breeding birds on hand, all carefully selected from many thousands. The largest and best birds on this continent. Birds not akin, from forty different yards. Eggs in season, fertility guaranteed. Order early to secure birds. My book "Natural and Artificial Duck Culture" with each order for birds or eggs. See what the Boston marketmen say about our birds. Send for illustrated catalogue. The Monarch Incubator still ahead, send for catalogue.

**JAMES RANKIN, South Easton, Mass.**

## SHOEMAKER'S BOOK ON POULTRY



and Almanac for 1899. 160 pages, 100 illustrations of Fowls, Incubators, Brooders, Poultry Houses, Poultry Supplies and largest Poultry Farm. Tells how to raise Chickens successfully, their care, diseases and remedies. Diagrams with full description to build best Poultry houses. All about Incubators, Brooders and thoroughbred Fowls with lowest prices. Printed on good paper in two colors. Price only 15c. Money back if not pleased.

**C. C. SHOEMAKER, Box 418, Freeport, Ill.**

...EMPIRE STRAIN...

## White Plymouth Rocks,

Lay large brown eggs.  
As good eggs as can be bought for \$1 per setting.

Stock for sale.

**LURAY POULTRY YARDS,**  
Luray, Va.

## Here's A Combination THAT WINS.

The Feather,  
Farm-Poultry....  
The American  
Fancier's Poultry Book.

For Only One Dollar.

THIS is cutting prices in halves and a cheaper or better combination could hardly be made. Two leading papers and the most popular poultry book published for one-half their cost. You know these papers as well as the book. Send us one dollar and we will send them to you for a whole year as well as presenting you a copy of our book.

Make all remittances payable to

**George E. Howard & Co.,**  
S. W. Cor. 8th and H Sts. N. W.,  
Washington, D. C.



## 1847 Rossmore Poultry Yards. 1899

GEO. C. BUCKNAM, Manager.

"Ex-King" of Light Brahma Breeders,  
NOW BREEDER OF

## Improved "Full Feathered" Dark Brahmas Exclusively.

We have the Best this year in both Fowls and Chicks, and the Only ones in America as yet, which we can sell at very low prices according to merit.

None can Sell at Lower Prices as they have not the Birds.

No circulars. Write for wants.

Yards, 1071 Main Street, Melrose Highlands, Mass.

## One Million Testimonials

ARE NOT SO CONVINCING

AS THE

30 DAYS' TRIAL FREE

50  
EGG SIZE \$5

We offer on every Incubator we make no matter how cheap. No regulator has ever approached in efficiency our Patent Pneumatic Regulator with which over heating is impossible. You may have chicks hatching every day in the week, with our Compartment Incubator. Among hundreds of others Mrs. M. T. Duvall, Old Church, Va., never before saw an incubator, yet with our Bantam hatched 50 chicks from 50 eggs. You can do as well. Send 4 cents for No. 108 Catalogue.



BUCKEYE INCUBATOR CO., Springfield, Ohio.

LONE PINE POULTRY YARDS, J. T. WALLING, Proprietor,  
Placerville, Cal.

Breeder of standard stock. B. P. Rocks, White Minorcas, White and Brown Leghorns, Light Brahmas, and B. C. Bantams. Eggs, \$2 per 15. No Bantam eggs. Stock in season.

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500 Envelopes, 6 1-2, \$1.25; 500 Cards, 3x5, \$1; 500 Note Heads \$1; 500 Shipping Tags \$1; 500 4-page Circulars \$5.

No better work for double the price; good stock, and colored inks. OUR CIRCULARS ARE SIMPLY ELEGANT. Orders filled promptly. We have the finest testimonials a printer ever had, and we send work from Maine to Texas. Send for samples.

THE FANCIERS' REVIEW, Chatham, N. Y.

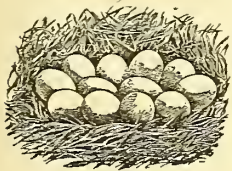
Will sell one-half of my breeding stock of 1898,

If you want the

## Cream of WHITE WYANDOTTES

Deal with me, the originator and breeder of the finest dark-egg strain in America. And the only strain that pleases both the fancier and the practical poultryman. In the great egg display at the Boston show, Jan. '98, my strain was King, winning first and second for best dozen brown, first for heaviest dozen (any color), first for best dozen Wyandottes, and Farm-Poultry's special \$10 in gold for the best and largest twenty-four or more Wyandotte eggs. The next week at the State show, St. Johnsbury, Vt., with eighteen birds, twelve entries. I won in strong competition twenty-three regular and special prizes, the best collection of W. Wyandottes, three specials for best breeding-pens, and special for best cock, cockerel, hen, and pullet. Stock and eggs for sale.

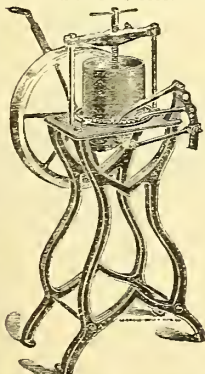
W. E. MACK, Woodstock, Vt.



including the silver cup for the best collection of W. Wyandottes, three specials for best breeding-pens, and special for best cock, cockerel, hen, and pullet.

## Green Bone Cutters.

THE Webster & Hannum Green Bone Cutter, formerly made at Cazenovia, N. Y., is now being manufactured and sold by the undersigned. This Bone Cutter has always been a favorite with poultrymen on account of its many advantages over all other machines. With our unsurpassed facilities for manufacturing, it will be better than ever.



The new cutter-head is practically *indestructible, absolutely self-feeding and self-regulating* as to the supply of bone fed to the knives. It will cut meat and gristle equally as well as bone. Made in sizes suitable for hand or power use. Read what F. E. Dawley, Director, Bureau of Farmers' Institutes, New York State, says of it:

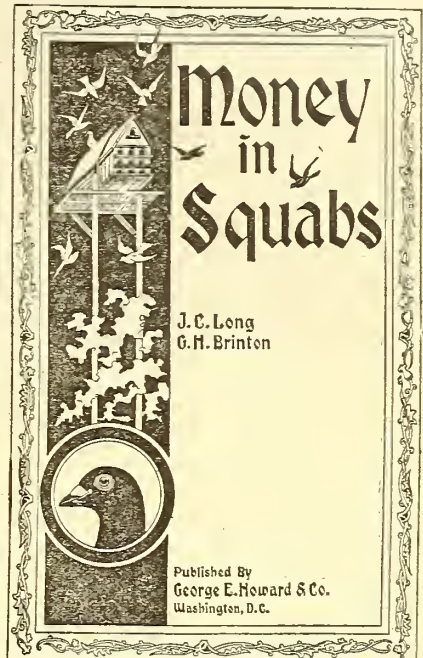
"I would urge every one who keeps fowls to feed green bone if they are after profit, and from experience would say, get a Webster & Hannum Cutter to do the work with. I am not at all interested in the sale of the W. & H. Cutter, and have paid full price for the one I use, so have no axe to grind."

F. E. DAWLEY.

Mr. Dawley raises poultry "by the acre." The only Bone Cutter receiving award at World's Fair, Chicago. Send for our free booklet, whether you keep poultry for pleasure or profit.

E. C. Stearns & Co., Box 10, Syracuse, N. Y.

A Standard Work.  
PRICE 50 CENTS.



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We will give every new subscriber to THE FEATHER, at the regular subscription price, 50 cents a year, a copy of this Standard Work on pigeon breeding. THE FEATHER and the book for only 50 cents. Don't delay sending in your subscription and get this most liberal offer.

GEORGE E. HOWARD & CO.,  
...Publishers...

S. W. Cor. 8th and H Sts. N. W., Wash., D. C.

## The Poultryman's Text Book.

LATEST REVISED EDITION.

PRICE \$1.00.



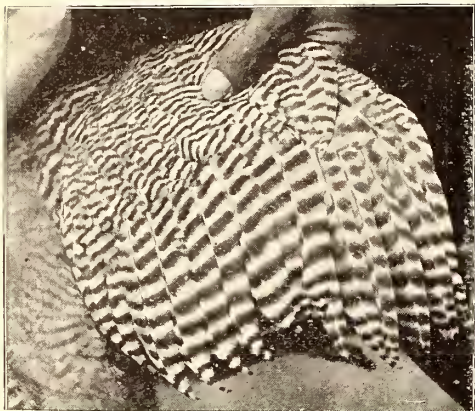
To Subscribers.

Every poultryman must have a copy of the American Standard of Perfection, to breed his fowls successfully. It is the Official Book of the American Poultry Association for Raising Poultry to a Standard of Perfection, with instructions to Judges, General Disqualifications, Cutting for Defects, Detailed Description of all Breeds of Poultry, Turkeys, Ducks, and Geese, and a Glossary of Technical Terms. We will give this book and a year's subscription to THE FEATHER, for only \$1.00, the price of the book alone. This is a most liberal offer.

GEORGE E. HOWARD & CO.,  
...Publishers...

S. W. Cor. 8th and H Sts. N. W., Wash., D. C.





### FROM ONE PEN

last year I raised the cockerel whose wing is shown here; two cockerels which I sold for \$50 each; and I refused \$75 for this cockerel; four other cockerels just as good as these, which will head some of my pens this year. In reading pages you will find picture (half-tone, and therefore true), of the cock which sired these cockerels, taken when he was a cockerel. **THE ORIGINAL PEN IS STILL IN MY YARDS.** TEN breeding-yards this season of the finest

### BARRED ROCKS

In America. Each bird a tried breeder or superior show specimen. I also breed S. C. BLACK MINORCAS, and have as good stock as America and England could furnish. Two pens this season that are superior to anything I know of. Have a few birds yet to dispose of—exhibition or breeding. No birds sold less than \$5, and your money back if not satisfied. Ordinary birds I do not sell at any price. I am booking orders for eggs, and the limit will soon be reached. Write at once for prices. **J. B. KIMENOUR, Belvidere, N. J.**

## PEACH GROVE POULTRY AND STOCK FARM.

The Prize Winners' Home.

I have won over 400 prizes in 1898 at the largest shows, and at the late Washington, D. C. show held January, 1899, on 48 entries I won 40 regular prizes, 10 specials, and 3 incubators for best display of Plymouth Rocks and Langshans. Eggs from Buff, Barred, and White Plymouth Rocks, White Wyandottes, Langshans, and Mottled Anconas, \$2 per setting. No catalogue. Address,

**F. G. BEAN, Fairview Village, Pa.**



First Prize at Washington, 1899.

## ...EASTERN SHORE POULTRY YARDS...

S. C. BROWN AND WHITE LEGHORNS ONLY.

At The Great Washington show in 1899 our S. C. White Leghorns won 1st on cock and pen, 3d on cockerel, and 4th on pullet. 4 prizes on 4 entries. How is that? We have green range the year around. Eggs, \$1 per 15, or \$5 per 100.

**H. E. VAN DEMAN & SON, Parksley, Va.**

## Potomac View Poultry Farm,

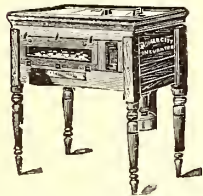
R. C. GRINDER, Prop., Rosslyn, Va.

Breeder of  
High-class

**B. Plymouth Rocks,  
Buff Leghorns....**

EGGS:  
\$2 per 15.

At Washington, D. C., January, 1899, I won 1st premium on Buff Leghorn cockerel. Stock bred for utility as well as fancy. Satisfaction guaranteed.



## ...THOUSANDS OF SATISFIED CUSTOMERS...

Are our best advertisements. Our 1899 improvements place the

## Homer City Incubator and Brooder

At the head. Send for catalogue and price list.

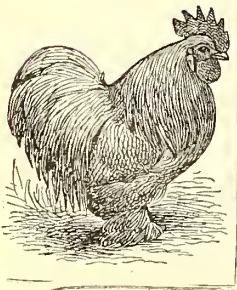
**BLAIRSVILLE MFG. CO., Blairsville, Pa.**

The Poultry & Farm Supply Co., Boston, Mass., Sole New Eng. Agts.

## TRETHAWAY'S BLACK MINORCAS.

Winners of the American Black Minorca Club (\$250) Trophy, in the strongest competition ever brought together, winning at New York, 1899, 1st and special pens, 2d cockerel, 2d hen, 2d pullet, 3d cock. 1898, 1st and special pens, 2d and 3d hens, 2d and 3d pullets, 3d cock. Eggs from winners and birds that produce winners for my customers \$3 per setting. Stock for sale. Satisfaction guaranteed. **ARTHUR TRETHAWAY, 133 S. Sherman St., Wilkes Barre, Pa.**

## THIELE'S WINNERS ALWAYS WIN.



**W**ILL sell at a great reduction this season's eggs from prize winners at the great Hagerstown show, and other shows not mentioned, of the following varieties: White and Barred P. Rocks, White and Brown Leghorns and B. B. R. Game Bantams, for \$1 per setting or \$6 per 100; Buff and Partridge Cochins, Black Langshans, White and Golden Wyandottes, Buff Leghorns, Houdans, Sherwoods, Blue Andalusians, Buff Cochins and Silver Sebright Bantams, for \$1.50 per setting or \$8 per 100; Dark Brahma eggs, \$2 per setting; White Turkey and African Geese eggs, 25c. each; Pekin Duck eggs, \$1 per setting or \$8 per hundred; hen eggs, 15c. and duck eggs, 11c. per setting. I have also some Ice Pigeons which I will sell for \$4 per pair; Homers, all colors, \$1 per pair; Black and Red Magpies and Archangels, \$2 per pair. Stock of all varieties for sale at all times. Young Belgian Hares \$1 per pair. Jersey Red, Berkshire, and Essex pigs for sale at all times. Send stamp for reply. No catalogues.

**R. THIELE, Silver Hill, Md.**

### FELT STRAIN

## White Wyandottes.

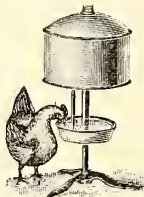
My birds have won in all leading New England shows; also at Boston and New York, 1899. Eggs for hatching, \$2 per setting; 3 settings \$5.

**G. E. GODFREY,  
455 Western Ave., Brighton, Mass.**

You can't read everything in print. But you can read

**"Poultry and Pigeon Raising,  
And How to Make it Pay,"**

By **EDWIN W. FLY**, Manager Clear View Farm, Chalfont, Pa. Send me 25 cents and I will send you the book postpaid.



### COE'S ADJUSTABLE DRINKING FOUNTAIN

for Poultry of all kinds. This is the best fountain for cleanliness, health, and pure fresh drinking water. Send for circular.

**W. R. COE,  
MERIDEN, CONN.**

## Buff Plymouth Rocks.

I won in the Gloucester show 1st cockerel, 2d cockerel, 2d pullet, and 2d pen on entry of 6 birds, and it was warm. Eggs, \$2 per 15; \$5 per 45.

**C. F. PULSIFER, Gloucester, Mass.**

### EGGS THAT HATCH.

75 per cent Fertile. Guaranteed.

**PURE WHITE WYANDOTTES**  
Large size, quick growers, great layers, mature early. Mammoth Pekin Ducks. Long body, flat back, deep keel, December layers, record 140 eggs in 6 months. Bred for business and fancy. None better. Satisfaction guaranteed. 14 years' experience. Eggs, \$1 per 13; \$3 per 50; \$5 per 100. Stock, \$1 to \$5 each. Circular. Niagara Farm. **W. ROY CURTISS & CO., Ransomville, N. Y.**

## BUFF LEGHORNS

That have met and vanquished all competitors in Alabama shows for the least 3 years. This year at Birmingham, 1st cock, 1st hen, 1st pullet, and 1st pen. I am sure there are no better Buffs south of Mason & Dixon's line. They are the best layers of the Leghorn family. Will sell no eggs for hatching that are laid over 6 days, and from carefully mated stock. Eggs, \$2.50 per setting of 15, or \$6 for 3 settings. Will sell trios of these birds at \$7.50 for the coming show season.

**SILVER LACED WYANDOTTES**, second to none in the country. Eggs, \$2 per setting of 15, or \$5 for 3 settings.

**BLACK LANGSHANS**, a splendidly mated pen, \$2 per setting of 15, or \$5 for 3 settings.

**BARRED PLYMOUTH ROCKS**, very large birds and well marked, \$1.50 per setting of 15, or 3 settings for \$4. Address,

**WILLIE REILLY, Pratt City, Ala.**

## ...FERTILE EGGS...

That is what you want! We have them for sale. From thoroughbred S. C. White Leghorns. Our breeders are selected with great care, and nothing but the best in shape, weight, and feather are used. This season's breeders are unusually fine, vigorous birds, from splendid laying stock. To introduce them will sell 13 Eggs for \$1.

**K. E. SPEAR, Conewango, N. Y.**

### SOME PEOPLE CLAIM

To have

## Pekin Ducks

With deep keels, but they don't say anything about **BLACK ON BEAN.**

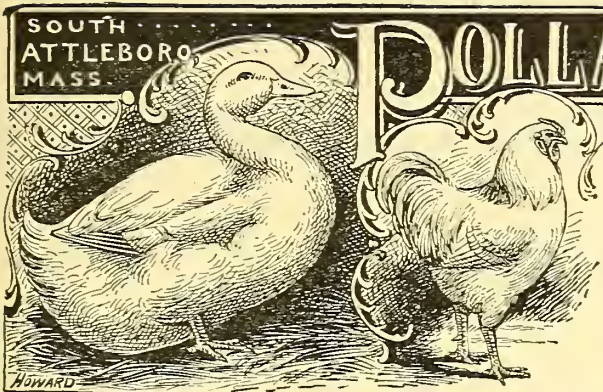
## ROWLAND'S PEKINS

Were the first to be shown with deep keel, and are, we believe, the only strain that has **NO BLACK ON BEAN.** I purchased his entire strain in '92, and all breeders know they are the finest in the land and are bred with deep keels and clear yellow beaks, by—

**D. A. MOUNT,**

Pine Tree Farm, Jamesburg, N. J.





**SOUTH ATTLEBORO MASS.**

# POLLARD'S POULTRY FARM

...POLLARD'S...

Pekin Ducks, White Wyandottes, and White Rocks,

Are money makers. Our Pekins the past Winter won on 6 entries at Madison Square Garden, 1, 2, and 3 on both duck and drake. At Hagerstown, Md., a clean sweep of all Pekin prizes. At R. I. Poultry Show 15 regular and 8 special prizes on 16 entries, (losing 4th on old drake). At R. I. State Fair clean sweep. Eggs, \$2 per 12; \$5 per 50; \$8 per 100.

**Pollard's Poultry Farm, South Attleboro, Mass.**  
Only Duck Farm in New England advertising where premiums are won.



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**B. S. SMITH, Proprietor, Closter, N. J.**

**EAST INDIAN DUCKS,**  
Profitable, Beautiful, Rare.

**LIGHT BRAHMAS,**  
"CEDARVALE" Strain.

Also choice birds in BARRED PLY. ROCKS AND SILVER S. HAMBURG. Fine birds for sale at all times. Just drop me a postal card, I can satisfy you or no charge. Write and be convinced. No more Pyles, White Games, nor Hamburgs for sale this year. They would take my breeders too if I'd let them.

The Excelsior Wire and Poultry Supply Co., of 28 Vesey St., New York City, is our sole agent for Aztecs and East Indian Ducks. Birds are always on exhibition at this place.

**BLACK AZTECS,**  
The Product of years of Scientific Breeding.

**GAME BANTAMS.**  
B. B. Red, Red Pyle, Silver Duckwing, White.



**CLOVER**

MFG. BY THE  
**JORDAN MILLING CO.**  
JORDAN, N.Y.

## GLOVER MEAL—\$5.00 PRIZE BROODERS.

Clover Meal will insure the egg yield in winter, it will insure more and stronger fertilized eggs, it will keep the hens in good health and vigor, it is equally as good for newly-hatched chicks as it is for matured hens. It will assist in putting those choice birds in the pink of condition for exhibition, and it is especially good for molting hens. We have the advantage over our competitors and can save our customers at least \$3 a ton freight and from two to four days in getting this Clover Meal. Our mill is at Jordan, N. Y., 17 miles west of Syracuse, on the New York Central and the West Shore Railroad and the Erie Canal. Price of Clover Meal, \$2 per 100, put up in 50-pound sacks. Send for Sample and Free Catalogue. We also manufacture the Famous **\$5 PRIZE BROODER**. It stands without an equal as a complete brooder-house summer or winter.



\$5 Prize Brooder.

**Jordan Milling Co., Jordan, N. Y.**

## ROUP

**CURE**  
**GUARANTEED.**

## CONKEY'S ROUP CURE,

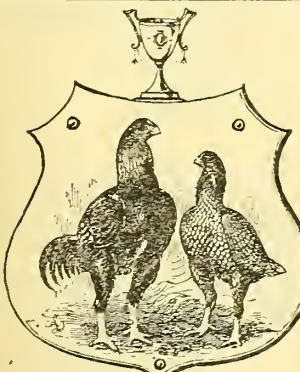
Simply put the cure in drinking water and the fowl will take its own medicine. For CANKER, especially in pigeons, this remedy excels all others. One 50c package makes 25 gallons of medicine. DIRECTIONS with every package. If this fails to cure we refund the money. Postpaid, small size, 50c; large size, \$1. Petaluma Incubator Co., Petaluma, Cal., Pacific Coast Agents.

AGENTS WANTED.  
Please mention this paper.

the only remedy positively known to cure Roup in all its forms, as long as the fowl can see to drink.

**G. E. CONKEY & CO., Cleveland, Ohio.**  
Do not send stamps.

## ROUP



Copyrighted, 1899.

Every bird described in detail, and if not, can be returned within one day at our expense. Correspondence invited. Eggs after February 1, 1899. Also Golden Sebright Bantams. Address,

**THE WAUTAUGA POULTRY YARDS,**  
**LEE F. MILLER, Proprietor.**

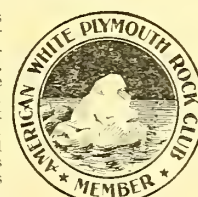
# Indians!

Cornish and White.

## White Plymouth Rocks.

Our yards contain some of the world's choicest specimens as breeders among which are the famous pair of Cornish Indians recently imported by us from Mr. Jas. Frayne, and of which the cut here shown is an exact representation, taken from life, which won first and cup at the Crystal Palace show in London in 1897; many of Thompson's and Sharp's finest breeders of both varieties of Indians; as well as White Rocks as follows: The White Rock cock which headed one of A. C. Hawkins' best yards last year, score 94; hens winning 1st and 2d in New York, and recently scoring 96 and 95½ by D. M. Owens; a pen winning second at the last Washington, D. C. show, some of the pullets being scored over 95 by Lambert. Illustrated and descriptive catalogue sent for stamp. Prices reasonable, considering quality. Every egg guaranteed to be fertile, or replaced free.

**THE WAUTAUGA POULTRY YARDS,**  
**LEE F. MILLER, Proprietor.**



AMERICAN WHITE PLYMOUTH ROCK CLUB  
MEMBER

Elizabethton, Tennessee.

## THE SEASON

Of Dog Shows and exposure is at hand. You don't want to lose your youngsters. With Spratts new-style Condition Tablets and Distemper Cure you are safe. Send for full list of modernized medicines to Spratts Patent, 239 to 245 East 56th St., New York. Manufacturers of all kinds of Dog and Poultry Supplies.

This month we draw attention to the following items of our big list of Poultry Supplies:

**Ground Beef for Winter Feed.**  
**Cardiac (a tonic powder).**  
**Chick Meal for Early Youngsters.**

With the three above mentioned in stock, you lose no birds.

**SPRATTS PATENT LIMITED,**  
239-245 East 56th St., New York.

Manufacturers of all kinds of Dog and Poultry Supplies.

## OUR EGGS ARE NOT THE DOLLAR KIND

Indian Games, per setting \$3.00	CUT CLOVER 100 lbs. \$1.25
Buff Ply. Rocks per setting \$2.00	200 lbs. \$2.00
Pekin Ducks, per setting \$1.50	Pure Beef & B. 100 lbs. \$2.00
Mica Crystal Grit, 100 lbs. \$1; ton \$7	Cracker Crs 100 lbs. \$1.50
Cash Oyster Shells 100 lbs. \$1; ton \$6.50	

**CLEVELAND POULTRY CO., PLATTSBURG, N. Y.**

## POULTRY SUPPLIES.

Bone Meal, Granulated Bone, Crushed and Granulated Oyster Shells and Charcoal, Limestone, Grit, Bone Mills, and Everything for the Poultry Yard For Sale at Reasonable Prices.

**THE CROWN BONE CUTTER.** We are now offering as a specialty a new Bone Cutter—The Crown—at the exceptionally low rate of \$6.50 with balance wheel (without stand), and \$8.50 complete with stand.

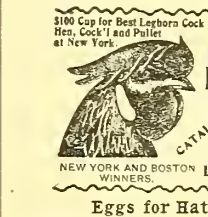
**JOHN H. SLACK, Bloomsbury, N. J.**

## Barred P. Rocks Exclusively.

America's Best Strain.

Won at the great Meadville, Pa. show—1st pullet 93, 2d 92½, 3d 92¼; 1st cock 91; 1st pen. Eggs from this strain of prize winners, \$1.50 per setting of 15 eggs. Also cockerels for sale.

**J. BYRON HUMES, Venango, Pa.**



**Empire State Farm.**

**BROWN LEGHORNS.**

**ROCKS.** Buff and White.

**GEO. H. BURGOTT,**  
BROWN LEGHORN SPECIALIST,  
Lawton's Station, N. Y., U. S. A.

NEW YORK AND BOSTON WINNERS.

Eggs for Hatching, \$2 per 13.

**THE AMERICAN FANCIER'S**

# Poultry Book

**GIVEN FREE.**

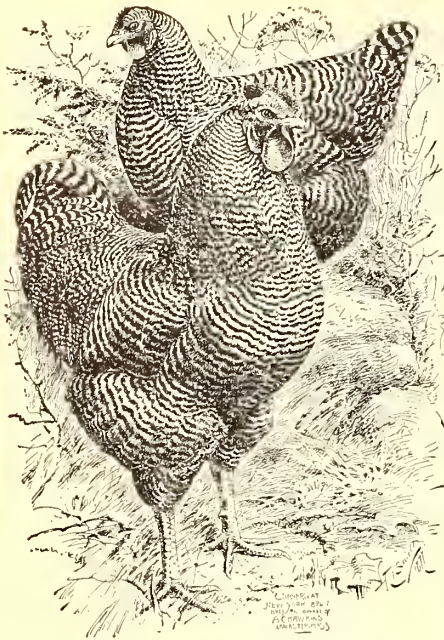
The Popular Poultry Book of America.

**192 PAGES - - -**  
**200 ILLUSTRATIONS**

This valuable book given absolutely free, with one year's subscription to **THE FEATHER** for 50 cents.

**GEORGE E. HOWARD & CO.,**  
S. W. Cor. 8th and H Sts. N. W., Wash., D. C.





Winners at New York, 1897, from life.

# HAWKINS'

## ROYAL BLUE STRAIN

# PLYMOUTH ROCKS

BARRED, WHITE AND BUFF.

WYANDOTTES, SILVER AND WHITE.

**ECCS** FROM PRIZE MATINGS.  
1 Sitting, \$5. 3 Settings, \$10.  
2 Settings, \$8. 5 Settings, \$15.  
Per 100, \$20.00.

Have won more Prizes at the Leading Shows of America and England than all others. My matings for 1899 are the best I ever owned.

At the Great National Show, WASHINGTON, D.C., in hot competition with over 300 birds of these varieties, the best that could be found regardless of price, I won 45 Regular and Special Prizes on 39 Entries, including First Prize on Breeding-Pen in each variety, Special for Best Display in the American Class, Special for Best Exhibit of Plymouth Rocks, Sweepstakes Special for Best Cockerel in the show (Bantams excluded), and this on my First Prize Barred P. Rock Cockerel. My winning White Wyandotte cock was pronounced by the judges to be the best they had ever seen. I won twice as many first prizes as all other exhibitors of these varieties. My BUFF ROCKS, at BOSTON, 1899, in hot competition, won more first and special prizes than all others. My customers are winning all over the country. If you want the BEST, write me. Hundreds of Choice Exhibition and Breeding Birds at honest prices. Catalogue of America's finest Plymouth Rocks and Wyandottes free.

A. C. HAWKINS, Lock Box 28, Lancaster, Mass.

## PRIZES BY THE MILLION

Well hardly.

But 18 First Prizes out of a possible 25 at Madison Square Garden, New York,

In the last 5 years is a pretty good starter. 63 prizes on 70 entries including \$100 cup and \$25 trophy seems like a fairy story. They are facts nevertheless. Now what do these prizes mean? Just this. No other breeder of

## ...BLACK LANGSHANS...

In America can show as great a prize record as Dr. Robinson. At New York City, 1899, he won 1st cock, 1st, 2d, and 3d hens, 2d and 4th cockerels, 1st, 2d, and 3d pullets, 1st, 3d, and 4th exhibition yards. Grand Gold Special for best Langshan, 13 prizes on 13 entries. My record on Exhibition Yards at Madison Square Garden in the last five years, viz: 1st, 3d, and 5th in 1895; 1st, 4th, and 5th in 1896; 1st, 2d, and 3d, in 1897; 1st, 2d, and 3d, in 1898; and 1st, 3d, and 4th in 1899, has probably never been equalled by a breeder of any variety at any show in America. In these 5 years my Langshans have won 6 times as many 1st prizes as any other exhibitor and nearly 3 times as many 1st prizes as all competitors combined. For great style and carriage, magnificent plumage, small, evenly serrated combs, this strain can not be excelled. Enclose stamp for finely illustrated circular giving complete prize record.

ECCS, \$5 per 13; \$9 per 26; \$12 per 39.

Dr. F. M. ROBINSON, Box 135, Pawling, N. Y.

Sec'y and Treas.



## DENNY'S BUFF ROCKS...

AT CHICAGO, 1899,

(The Annual meeting of the Buff Rock Club.)

Won more regular premiums than any other exhibitor, in a class of 82 birds by 14 exhibitors. Among the specials was the one for 2 best cocks, hens, cockerels, and pullets by 1 exhibitor; also special for most even colored cock. Still have some choice breeders for sale. Eggs, \$3 per 13. Orders booked now. Send for circular.

W. C. DENNY, Rochester, N. Y.

## THE "RINGLETS" SOAR STILL HIGHER

AT NEW YORK, FEBRUARY, 1898,

## E. B. Thompson's Barred Plymouth Rocks,

Again won all the Sweepstakes cups and Trophies, including the Superb Challenge Trophy, value \$100, for best cock, cockerel, hen, pullet, and exhibition pen. Sterling Silver Cup, value \$100, for finest exhibit. Grand Special Sweepstakes Cup, value \$100, presented by the President for best cock, cockerel, hen, and pullet, Plymouth Rocks, any variety.

My Clean Sweep of 1st, 2d, 3d, 4th, and 5th Prizes on Pullets

Has never been approached in Madison Square Garden and stands alone and unequalled. The record of both 1st and 2d Prizes on Breeding Pens is also phenomenal. At New York, 1895-6-7 my Barred Plymouth Rocks won almost 3 times as many 1st prizes as any other exhibitor, and more 1st prizes than all competitors combined.

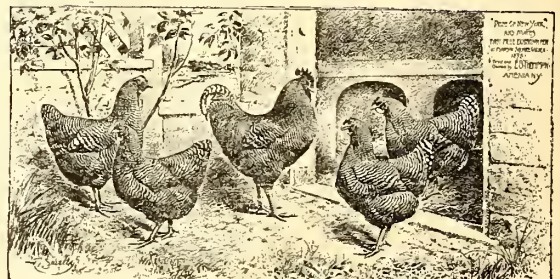
## 400 Grand Breeding Cockerels

For sale; also elegant pullets in any number. Eggs from finest exhibition matings, one setting \$5; two settings \$9; three settings \$12. Richly illustrated catalogue on Application. Address,

E. B. THOMPSON, Lock Box 406, Amenia, Dutchess Co., N. Y.



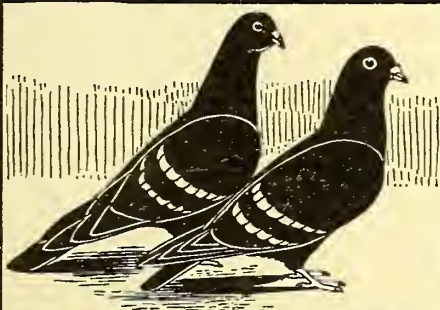
"NEW YORK CHIEF."  
1st Ckl. N. Y. City, 1897.  
1st Cock N. Y. City, 1898.



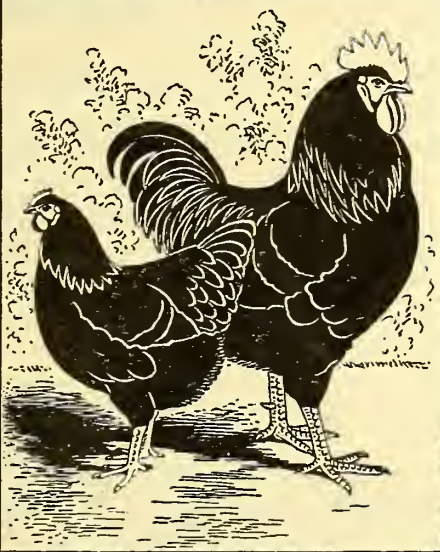
First-Prize B. Rock Pen at New York, February, 1898.



# The Feather



PIGEONS.



POULTRY.

WASHINGTON, D. C.

Vol. IV. APRIL, 1899. No. 7.

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Published the 15th of Each Month.

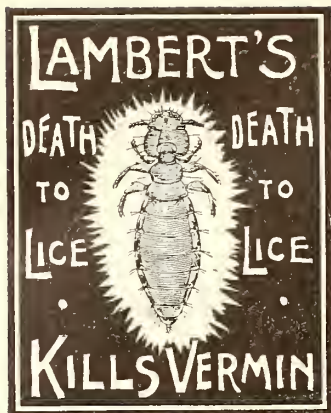
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for Poultry Keepers,  
Always Free.

## TO KILL ALL SORTS OF VERMIN

Use **LAMBERT'S DEATH TO LICE.**

A dose gives immediate relief, and a frequent dusting will keep a fowl clean, comfortable, and profitable. If a little could be placed in or around their tail-feathers while at roost, say once each month, there would be no need of handling each bird separately. A handful in each nest will keep the layers all right, and nothing but lice and bad smells are killed with this powder. Little chickens are often victims of head lice. They fasten their fangs into the cranium of the little "peepers," when from two to six weeks old, and suck the very life from every chick, unless removed by force or an application of Lambert's Death to Lice.

### DEATH TO LICE OINTMENT

Is an old English remedy for head lice on children, and it works equally effectually on chickens. A hundred can be treated in, say, ten minutes, without affecting the growth of a chick in any way.

Mites or spider lice often take possession of a henhouse or brooder. They hide in cracks and crevices by day, and crawl out on their victims at night, feasting on their blood until the lice are red as lobsters in the morning.

### DEATH TO LICE SPECIAL

Is a powder designed to be dissolved in kerosene or coal oil, and used as a paint for henneries; or it can be diluted with water for a brooder wash, etc., resulting in clean quarters and healthy inmates. These remedies are manufactured by a practical poultry keeper, whose chickens grow and whose poultry farm is a profitable one. No one has finer birds or gets better results from them. Keeping the birds clean and comfortable is the only secret of success. Ten cents in stamps will secure a liberal sample of either of the above remedies; twenty-five cents will bring all three to your post office or door.

Address **D. J. LAMBERT, Box 247, Apponaug, R. I.**



## RINGLET ROCKS

ARE IDENTICAL WITH SUCCESS.

You need not fear defeat if you breed this strain.

### 400 Grand Breeding Cockerels for Sale.

Also Elegant Pullets in any number.

Eggs from the finest matings I ever made and winners are sure to come.

#### PROOF OF QUALITY.

MR. E. B. THOMPSON,

DEAR SIR:—The Barred Rocks hatched from 2 settings eggs I received from you last spring, won 1st and 2d prizes on breeding-pens, 1st and 2d cockerels, 1st and 2d pullets, and 1st pair, at the St. John's show, December last. At Montreal, January, 1899, on three entries only, won 1st on breeding-pen, 1st pullet and 2d cockerel.

ST. JOHNS, P. Q., February 7, 1899.

Yours truly,

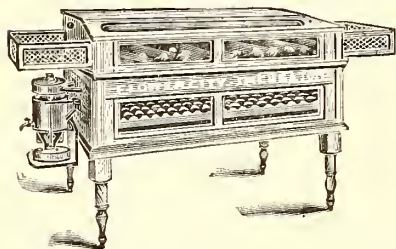
ROBT H. ALPAUGH.

See large ad on back cover page.

**E. B. THOMPSON, Lock Box 406, Amenia, Dutchess Co., N. Y.**

### ...INCUBATORS AND BROODERS...

GET THE WORLD'S STANDARD BEST.



Thousands of these machines in successful operation. Our machines have all the latest and most perfect improvements, and every machine is equipped with a patent non-explosive fire-proof lamp. We manufacture more styles of first-class standard machines than any other house in the world. Large valuable pointer, fully illustrated catalogue and special discount sheet for 6c. Don't buy machines until you first get our catalogue and discount sheet, as our prices will surprise you. Address,

**Flower City Incubator & Brooder Co., ROCHESTER, N. Y.**

Mention The Feather.

### Barred and White Plymouth Rocks Exclusively.

I breed them for shape, size and color. Choice eggs at \$1.50 per 15; \$2.50 per 30; \$6 per 100.

**J. FRANK BOWEN, Box 1227, Adams, Mass.**

## OUR WHITE WYANDOTTES

1st cock, 2d hen, 2d cockerel, 1st and 2d pullet, at Great New York show, 1899.

**LEBANON POULTRY YARDS, Lebanon, Pa.**

## ..BLACK MINORCAS..

Invincible Wherever Shown.

Winners at Madison Square Garden, 1899: 1st and 5th cock; 3d and 4th hen; 1st, 3d, and 4th pullet; 2d pen.

New York State Cups for best cock, hen, cockerel, pullet, and pen.

Board of Directors' Cup for best five male birds.

Special for best exhibit in open class.

Special for best two cocks and two hens.

Special for best two cockerels and two pullets.

Special for largest exhibit in class.

I have also purchased and added to my breeding stock the Grand First-Prize

Breeding-Pen of Minorcas at Madison Square, 1899.

**C. J. ANDRUSS,**

**Canandaigua, N. Y.**

**RICHARD A. HOMEYER,**  
Middle Village, N. Y.

—Breeder of—

**Buff Wyandottes and Homing Pigeons.**  
Prices Reasonable.

**I BREED THE J. W. ANDREWS**

**CROWN PRINCE STRAIN OF**

### White Wyandottes.

Some extra fine breeding cockerels from \$2 to \$4 each. Eggs, \$1.50 per setting.

Farm at Seekonk, Mass.

**DAVID E. MORGAN,**

39 Bradford Street,

Providence, R. I.

**Victory! Victory! Victory!**

~~~~~ Crowns my ~~~~~

Barred Plymouth Rocks..

A Manila and a Santiago battle in Madison Square Garden, and my victory as complete.

NEVER since poultry shows were started did any breeder of any variety even Approach my grand sweep at the late New York show.

Read!!! 1st and 3d on cocks; 1st and 2d on hens; 2d, 3d, 4th, and 5th on cockerels; 1st, 2d, and 3d on pullets; 1st, 2d, and 4th on exhibition yards. These are regular prizes only. In the Specials I WON ALL including Grand Silver Challenge Trophy Cup for best cock, hen, cockerel, pullet, and yard; also the Sweepstakes special for BEST PLYMOUTH ROCK hatched in 1898, and the President's Cup for best cock, hen, cockerel, pullet, and yard. This, to say nothing of my past record, eclipsed ALL OTHERS.

50 COCKERELS

Of same breeding, strong in undercolor, and straight barred from \$5 to \$10 each.

75 PULLETS

\$3 to \$5 each.

EGGS: 13 for \$5; 26 for \$9; 39 for \$12. From choicest matings.

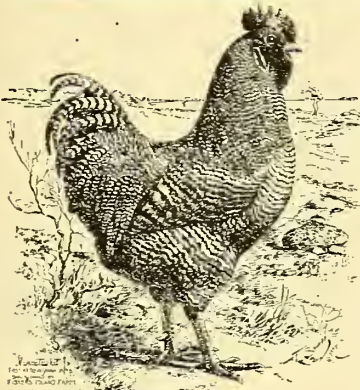
C. H. WELLES, Stratford, Conn., U. S. A.

Fisher's Island Farm,

FISHER'S ISLAND, N. Y.

BARRED PLY. ROCKS

From best Blood in America.



"MUNNATAWKET JR."
First Cock at New York, 1898.

**White and
Buff Rocks....**
**Bronze and
White Turkeys.**
**Cornish
and White
Indian Games...**
Pekin Ducks.
Pheasants.
Belgian Hares.

Fine Bucks and Does For Sale.

WINNERS at Pittsburg, Toronto, and New York the past season:
Send for Illustrated Catalogue.
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FISHER'S ISLAND FARM,

FISHER'S ISLAND, NEW YORK.

E. M. & W. FERGUSON, Proprietors.

Maple Grove Poultry Farm

L. O. BROMLEY, Prop.,
Forestville, N. Y.



Single Comb Brown Leghorns.

I exhibited this season in N. Y., Pa., and Ohio,
21 birds and won nine 1sts, five 2ds, four 3ds, one
4th, and one 5th; seven out of 21 scored 94-95.
Eggs, \$1.50 per 15; \$2.50 per 30. Catalogue.

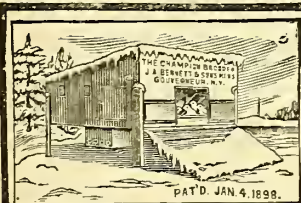
Minich's Dark Brahmas are Hot Stuff

LOOK UP OUR RECORD AT ALL THE BIG SHOWS.

At Mt. Gretna, Pa., 1896, we won on our Darks 2d Cock, 1st Cockerel, 1st and 2d Hens, 1st Pullet, 1st Pen. Gold special for best five Brahmas in the show, any variety. Look up our winnings at Newburg, N. Y., and Hagerstown, Md.

We breed Red Caps, Houdans, Indian Games, Partridge Cochins, Golden Wyandottes, S. S. Hamburgs, Golden P. Hamburgs. Eggs \$2 per 15. Have a few dark Brahma Cockerels and Pullets for sale; will win in any show.

L. B. MINICH & SON, Carlisle, Pa.



In Zero Weather

when everything is frozen up tight is the time to test a brooder. It is then that the poultryman wishes to be sure that he has made no mistake in buying a machine.

THE \$5.00 CHAMPION BROODER IS KNOWN BY ITS WORK.

It fills every requirement. It has stood the zero test repeatedly in the worst blizzards of years. It brings its chicks through every time under all conditions. Endorsed by the very best authorities. Send for descriptive catalog and testimonials.

J. A. Bennett & Sons, Box B. Gouverneur, N. Y.

BOYLES' R. C. BROWN LEGHORNS...

Won the highest honors at Cleveland, Youngstown, and Erie shows in hot competition, '97 and '98. Judges, Pierce, Bridge, and Jarvis. At Meadville, Pa., won every 1st and 2d prize, all 3d and 4th but 3, score, 90 to 94. At Hamburg, N. Y., cock 1st and 2d, cockerel 1st, hen 1st, 2d, 3d, and 4th, pullet 1st and 3d, score 92 to 94½; pen 1st, Burgott, judge. Cockerel with card for sale. Big catalogue free.

W. A. BOYLES & SON, Box C, Meadville, Pa.

Buffinton's Buffs

Still take the lead. Hundreds of prizes won at such shows as Madison Square Garden, Buffalo, Washington, Hagerstown, Hartford, Providence, Boston, and nearly every local show in New England. We have the only flock of good Rhode Island Reds in the country. Eggs from Buff Wyandottes, Buff Plymouth Rocks, Buff Leghorns, and Rhode Island Reds, \$2 per 13; \$5 per 40. Buff Cochins, Barred P. Rocks, and White Leghorns, \$1.25 per 13; \$5 per 40. Stock for sale. For \$1 we will send recipe for Sampson's method of feeding hens for eggs. Send for circular.

ROWLAND G. BUFFINTON,
Box 677, Fall River, Mass.

SYLVAN GROVE POULTRY FARM.

Red-Bay Strain GOLDEN WYANDOTTES.

Clear, open, reddish bay centers on back and breast, young birds (not fully matured) scored by Felch, Dec. 8, '98, as high as 94. Pullet "Bessie" was cut 1½ on weight, yet she got a score of 94, four weeks later she had gained this loss in weight, making her real score 95½. Blue Andalusians, fine as silk. Write for list of scores and prizes. Eggs, \$2 per 13; \$5 per 40.

E. S. & E. F. WAYNE, Bernardston, Mass.

Who Said I Hollered?

For \$5, Colchis Farm of Farmer, N. Y., will sell 1 trio White Muscovy Ducks that are beauties, and they never cry

Quack! Quack! Quack!

EGGS THAT HATCH
75 percent Fertile. Guaranteed.

PURE WHITE WYANDOTTES

Large size, quick growers, great layers, mature early. Mammoth Pekin Ducks. Long body, flat back, deep keel, December layers, record 140 eggs in 6 months. Bred for business and fancy. None better. Satisfaction guaranteed. 14 years' experience. Eggs, \$1 per 13; \$3 per 50; \$5 per 100. Stock, \$1 to \$5 each. Circular Niagara Farm. W. ROY CURTISS & CO., Ransomville, N. Y.

BUFF LEGHORNS

That have met and vanquished all competitors in Alabama shows for the last 3 years. This year at Birmingham, 1st cock, 1st hen, 1st pullet, and 1st pen. I am sure there are no better Buffs south of Mason & Dixon's line. They are the best layers of the Leghorn family. Will sell no eggs for hatching that are laid over 6 days, and from carefully mated stock. Eggs, \$2.50 per setting of 15, or \$6 for 3 settings. Will sell trios of these birds at \$7.50 for the coming show season.

SILVER LACED WYANDOTTES, second to none in the country. Eggs, \$2 per setting of 15, or \$5 for 3 settings.

BLACK LANGSHANS, a splendidly mated pen, \$2 per setting of 15, or \$5 for 3 settings.

BARRED PLYMOUTH ROCKS, very large birds and well marked, \$1.50 per setting of 15, or 3 settings for \$4. Address,

WILLIE REILLY, Pratt City, Ala.

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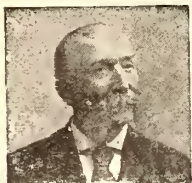
To have . . . Pekin Ducks

With deep keels, but they don't say anything about BLACK ON BEAN.

ROWLAND'S PEKINS

Were the first to be shown with deep keel, and are, we believe, the only strain that has NO BLACK ON BEAN. I purchased his entire strain in '92, and all breeders know they are the finest in the land and are bred with deep keels and clear yellow beaks, by—

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Breeder of Light Brahmas, Partridge Cochins, Barred and White P. Rocks. Bantams: Buff Cochins, White Japanese, and B. B. Red Games. Also a choice flock of Pekin Ducks.

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Congressman Brownlow,
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Steel tested Pit Games for sale.
Enclose stamp for circular.

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Breeds Barred and White P. Rocks, S. C. White and Brown Leghorns, White Wyandottes, Light Brahmas, Bronze Turkeys, and Pekin Ducks, from the best strains. Write for illustrated circular and price list. Eggs for sale. No more stock until July 1st. Please mention The Feather.

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1899 BANDS—The official enamelled bands of the Tumbler Clubs are furnished by me at 4 cents each, or 45 cents per dozen, without initials, numbered from 1 up. Aluminum bands for pigeons and poultry, will not tarnish, always the same color; with year and numbered 1 to 100, \$3 per 100; with year only, \$1.50 per 100; with initials, 25 cents per 100 letters. Send 2-cent stamp for circular and sample. Remittances must accompany order. Enamelled bands, 45 cents per dozen. T. Willetts, 180 Lawrence St., Lowell, Mass.



S. C. B. Leghorns,
Rose C. B. Leghorns,
Golden Wyandottes.

Winners of 1st prizes at Hanover, Pa., 1898, Carlisle, Pa., 1898, Hagerstown, Md., 1898. Send for price list.

GUSTAVUS CULP,
Virginia Mills,
Adams Co., Pa.

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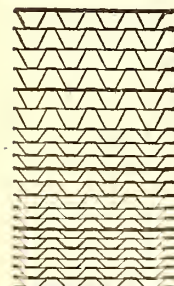
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Barred Plymouth Rocks,
White Crested Blk. Polish.

Good, strong, hardy birds and winners at that. Send for prices before you buy. No culls. **Provident Food** for chicks, reduces the death rate in young chicks. Sample package 10c. Send for price. **Orr's Clear Grit**, crushed oyster shells, meat meals, and poultry supplies. Send for prices. D. LINCOLN ORR, Box 7, Orr's Mills, N. Y.

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is made of the best No 19 galvanized steel wire, strengthened by a cable selvage and a cable every foot in the height of the fence.

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Its multitude of horizontal wires gives it strength, makes it easy to erect, keeps it in good shape

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II WILL sell at a great reduction this season's eggs from prize winners at the great Hagerstown show, and other shows not mentioned, of the following varieties: White and Barred P. Rocks, White and Brown Leghorns and B. B. R. Game Bantams, for \$1 per setting or \$6 per 100; Buff and Partridge Cochins, Black Langshans, White and Golden Wyandottes, Buff Leghorns, Houdans, Sherwoods, Blue Andalusians, Buff Cochins and Silver Sebright Bantams for \$1.50 per setting or \$8 per 100; Dark Brahma eggs, \$2 per setting; White Turkey and African Geese eggs, 25c. each; Pekin Duck eggs, \$1 per setting or \$8 per hundred; hen eggs, 15, and duck eggs, 11 per setting. I have also some Ice Pigeons which I will sell for \$4 per pair; Homers, all colors, \$1 per pair; Black and Red Magpies and Archangels, \$2 per pair. Stock of all varieties for sale at all times. Young Belgian Hares \$1 per pair. Jersey Red, Berkshire, and Essex pigs for sale at all times. Send stamp for reply. No catalogues.

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Barred and White P. Rocks, Sherwoods, Cornish Indians, White and Silver Laced Wyandottes, S. C. Buff Leghorns, Black Javas, and S. C. Black Minorcas. Fine as silk. Prize winners and matings scored from 91½ to 95. Few more birds for sale. Yards mated since January 10th, 1899. Poor hatches, honestly reported, duplicated free. Eggs, \$1.50 per 15; \$2.75 per 30; \$7 per 100.

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Save Your Money If You Would Get Rich....

I breed BARRED (not speckled) P. ROCKS and LIGHT BRAHMAS EXCLUSIVELY, and have as good stock as time, money, and best breeders in this country can produce. Am now booking orders for eggs to be delivered when you say, at \$2 per 15; \$3 per 30; and a fair hatch guaranteed. A few good cockerels, with score card by McClave, cheap. All orders and correspondence given my personal and prompt attention. Visitors welcome every day except Sunday. "Remember the Sabbath day to keep it Holy." Satisfaction guaranteed or your money back. Good pen S. S. Hamburgs, with cards by McClave cheap to close out. Yours for better poultry.

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Barred Plymouth Rocks.

Pekin Ducks.

(Newman's.)

KINLOCH FARM, Cockeysville, Md.

Colony plan. Stock bred from two-year-olds, insuring size and vigor. Barred Rocks, \$1.50 each and upwards. Our Ducks are the equals of any ducks, \$1.50; drakes, \$2.

N. B.—Stock of higher feather merit matter of correspondence. Eggs, \$1 per setting.

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TRETHAWAY'S BLACK MINORCAS.

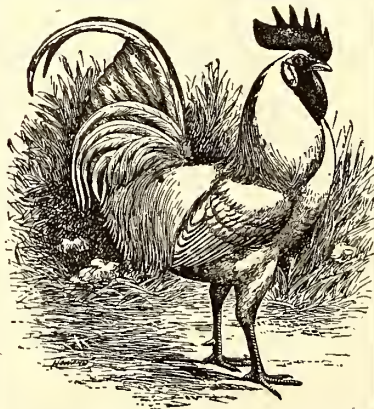
Winners of the American Black Minorca Club (\$250) Trophy, in the strongest competition ever brought together, winning at New York, 1899, 1st and special pens, 2d cockerel, 2d hen, 2d pullet, 3d cock. 1898, 1st and special pens, 2d and 3d hens, 2d and 3d pullets, 3d cock. Eggs from winners and birds that produce winners for my customers \$3 per setting. Stock for sale. Satisfaction guaranteed. ARTHUR TRETHAWAY, 133 S. Sherman St., Wilkes Barre, Pa.

PEACH GROVE POULTRY AND STOCK FARM.

The Prize Winners' Home.

I have won over 400 prizes in 1898 at the largest shows, and at the late Washington, D. C. show held January, 1899, on 48 entries I won 40 regular prizes, 10 specials, and 3 incubators for best display of Plymouth Rocks and Langshans. Eggs from Buff, Barred, and White Plymouth Rocks, White Wyandottes, Langshans, and Mottled Anconas, \$2 per setting. No catalogue. Address,

F. G. BEAN, Fairview Village, Pa.



WYCKOFF'S White Leghorns

America's Business Hen;

Have been carefully bred and improved for the past 18 years regardless of expense, and on the strictest application of the true principles of Leghorn breeding with a result that fully justifies their acknowledgment everywhere as **The World's Greatest Laying Strain of S. C. White Leghorns**, combined with the highest degree of excellence in Standard Qualities, Size, Strength, and Vigor, and layers of large, pure white, perfectly shaped eggs that command the highest premiums in the finest city markets.

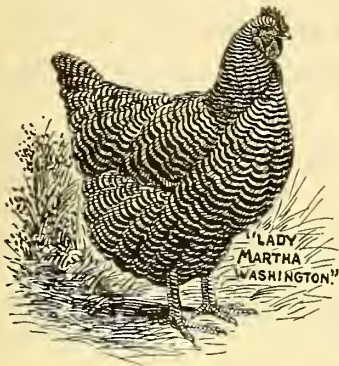
Hundreds of unsolicited testimonials recently received from customers in all parts of the country testify, not only to their superior laying qualities, but also to the many victories and high scores awarded them in the show-rooms.

Good breeding stock in early cockerels and 1897-hatched hens yet for sale. Eggs for hatching from my choicest selections and matings only, the cream of over 1,200 carefully bred birds. No close inbreeding ever practised in my yards.

Eggs, \$2 per 15; \$3.75 per 30; \$5 per 45; \$10 per 100. Large illustrated and descriptive circular free

ADDRESS C. H. WYCKOFF,

Groton, Tomp. Co., N. Y.



"LADY MARTHA WASHINGTON."
1st at Hagerstown, '06.
1st at Washington, '97.

Barred Plymouth Rock Eggs

I have mated 5 pens this year that please me better than any I have ever had. I retained all my best females for breeding and have 50 in my pens. Mr. Calvin Rineholt, a man experienced in feeding for eggs and raising chicks, a man who could drink, eat, and sleep with chickens, will spend his entire time in my yards raising young chicks. I feel sure I can furnish good eggs, fertile eggs. I will duplicate orders where eggs prove not to hatch well. Eggs from best two pens, \$3 per 13; \$5 per 26. Eggs from 3 other pens equally as good for practical purposes, \$2 per 13; \$3.50 per 26; and \$5 per 39. If you will favor me with your order I will try and please you. For list of winnings refer to December and January number of THE FEATHER. Incubator eggs, \$3 per 100.

VALLIE HAWKINS, M. D.,
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IF YOU WANT to get in the Barred Rock game,

...BUY FROM RIDGELY.

They have won in 1898: Washington, 1st on hen; Madison Square Garden, 1st hen, 2d cock, and 5th pen; Hagerstown, 1st and 2d cocks, 1st pullet, and 1st, 2d, 3d, and 5th hens; Hamilton, Va., 1st on pullet; Coatesville, Pa., 1st cock, 2d hen, 1st pullet, and 2d pen; West Chester, Pa., 1st cock, 1st and 3d pullets, and 2d cockerel.

EGGS

From either cockerel or pullet matings, \$2.50 per 13.

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First Prize at Washington, 1899.

...EASTERN SHORE POULTRY YARDS...

S. C. BROWN AND WHITE LEGHORNS ONLY.

At The Great Washington show in 1899 our S. C. White Leghorns won 1st on cock and pen, 3d on cockerel, and 4th on pullet. 4 prizes on 4 entries. How is that? We have green range the year around. Eggs, \$1 per 15, or \$5 per 100.

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Potomac View Poultry Farm,

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Breeder of
High-class

B. Plymouth Rocks,
Buff Leghorns....

EGGS:
\$2 per 15.

At Washington, D. C., January, 1899, I won 1st premium on Buff Leghorn cockerel. Stock bred for utility as well as fancy. Satisfaction guaranteed.

TO BREEDERS OF

Barred Plymouth Rocks..

Having won at the Great National show, Washington, D. C., two successive years against America's best, and having furnished winners to some of the best breeders, I respectfully solicit your patronage. Fine references. Birds ready for breeding and all shows, American and Foreign, at reasonable prices. Ask for catalogue of full particulars about eggs and stock, and many handsome photographic pictures of the birds as they appear at our farm. No fancy drawings allowed.

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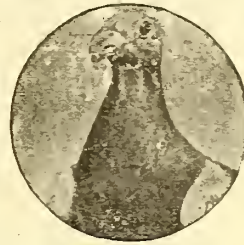


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Don't buy any incubator and pay for it until you have given it a thorough trial.

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Some incubators are made only to sell and were never intended to hatch chickens, and you pay for them only when fully satisfied. They are the easiest to handle; a child can run one successfully. We send the largest catalogue and best treatise on incubation and poultry culture published for 5c. Plans for Brooders, Poultry Houses, etc., for 25c.

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Reliable Birds at

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The grandest lot of chicks we ever raised. If you want birds with tremendous reach, fine snake heads, long thin necks, low close tails, combined with brightness of color, and hardness of feather, we can supply you. Also grand massive BUFF COCHINS, brothers and sisters to our winners at Johnstown, Brockton, Keene, Fitchburg, Boston, and Brattleboro. Cornish Indian Games, Pit Games, and Game and Ornamental Bantams. PEIRCE BROS., Lock Box P, Winchester, N. H.

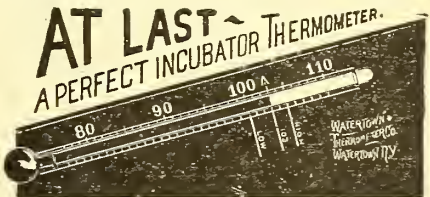
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They have won World's renowned reputation. Clean sweep at World's Fair, and have continued to lead in this country and England. N. Y., '95, '96, and '98. Winning the Am. Buff P. Rock Club's Silver Cup for Best Collection at N. Y. '98. Eggs, \$5 per 13; \$8 per 26; \$10 per 39.

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The incline of the tube carries the mercury back into the bulb at lower temperatures. No erroneous readings. Bulb rests on two eggs, insuring the correct temperature. Every tube is seasoned. Costs no more than an inferior one. By mail--one, 75c., three, \$1.50.

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A reliable, fire-proof Hatcher, so ventilated as to maintain nature's moisture of the egg. Plans for indoor or outdoor brooder free with each machine. Send for catalogue.

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Prize winners at Madison Square Garden, Rochester, and Syracuse.

100 Choice Cockerels for Sale.

Eggs from twenty grand yards. Send for circular and list of matings for '99.

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Not quite "16 to 1," but sufficient to sustain our long-standing claim that our

S. C. WHITE LEGHORNS

BEST EGG-PRODUCING VARIETY KNOWN. LARGE WHITE EGGS.

WHITE WYANDOTTES

THE BEST GENERAL-PURPOSE FOWL. BROWN=EGG STRAIN.

— STILL LEAD ALL OTHER STRAINS! —

At New York State Fair, September, 1898, EIGHT of the ten FIRST PRIZES offered on our varieties were awarded to **KNAPP BROS., Fabius, N. Y.**, 16 years before the public and at 37 of the leading shows, with HIGHEST HONORS every time.

We now have nearly 1,000 CHOICE BREEDERS and EARLY-HATCHED CHICKS. If you want fall or winter SHOW BIRDS and SURE TESTED BREEDING STOCK, at reasonable prices, LET US HEAR FROM YOU SOON.

Stamp for catalogue giving highest prize record ever won by any breeder of any variety.

KNAPP BROS., Box 600, Fabius, N. Y.

UPLANDS POULTRY FARM,

Box 100, Station D, Baltimore, Md.

White Wyandottes,

Typical shape, white as snow.

Barred Plymouth Rocks,

Typical shape, clean, sharp, deep barring.

Partridge Cochins,

Heavy feathering, correct color, and penciling.

Light Brahmas,

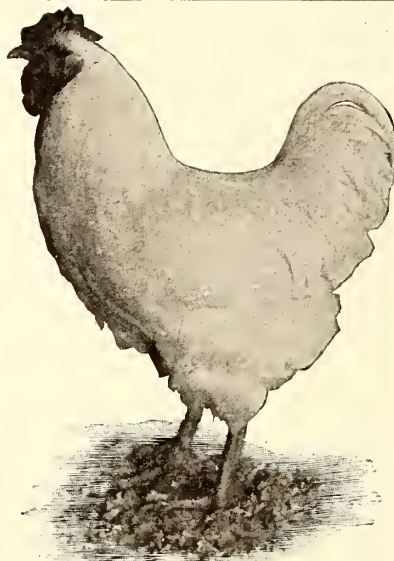
Typical shape and penciled tails.

Pekin Ducks,

Weighing from 9 to 12 lbs. each.

Our birds have won at New York, Boston, Washington, D. C., Hagerstown, and other shows. At Washington, D. C., January 10-14, 1899, our Barred Rocks won 1st and 3d hens, 2d and 4th pullets, 3d and 4th pens; White Wyandottes won in every class. Eggs from prize matings, \$3 per 13; \$5 per 26. Duck eggs, \$2 per 11; \$8 per 100. Satisfaction guaranteed. Stock for sale.

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For Sale Cheap.

\$1 to \$1.50 each gets some fine bargains in Chickens and Ducks. Turkeys, \$5 a pair. Toulouse Geese, \$2.50. Also Sheep, Hogs, Beagle Hounds, Maltese Cats, cheap.

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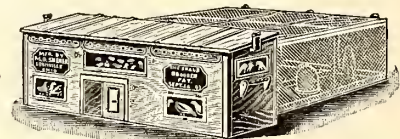
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Is the Originator and Breeder of the

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Raise your Chicks in **BROODERS**, Our Compartment and your success is assured. Send 2-c. stamp for catalog. **M. O. SHERER, Box 7, Louisville, O.**



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of prize winning poultry for 1899. The finest poultry book out. A perfect guide to poultry raisers. Calendar for '99 on cover. Gives price of eggs and stock from the very best strains. It shows the finest chickens and describes them all. Fifty different varieties. Everybody wants this poultry book. Send Six cents in stamps.

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Our buffs are noted for their great size and heavy feathering. At Hagerstown, '96, '97, and '98 we won more first and second prizes than any two competitors. At Hagerstown, '98, we won 1st and 4th on cockerels, 1st and 4th on pullets, 1st, 2d, and 3d on hens, and 2d on pen. Eggs from these grand birds \$3 per 13; \$5 per 26.

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85 Premiums on 85 Entries,

Were awarded our Barred and White P. Rocks, White Wyandottes, S. C. Brown Leghorns, Rhode Island Reds, Black Javas, and Minorcas. Some Boston winners. Eggs \$1.50 per 15; \$3 per 30; \$5 per 60; \$8 per 100. Circular free.

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Buff Leghorns Exclusively.

Lister Kay's strain—no comment necessary. Motto: Highest Score, Prolific Layers.

—EGGS, \$1.50 per 15.—

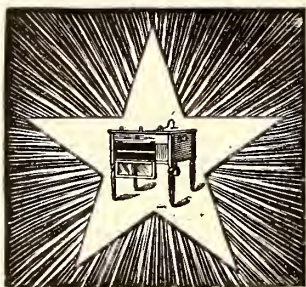
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THE STAR INCUBATOR

Never fails or disappoints.
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Catalogue Free.



Simple,
Accurate,
No moisture to be supplied.

Star Incubator and Brooder Co., BOUND BROOK, N. J.

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WINTER EGGS

ARE MOST DESIRABLE

because it is then that eggs command the most money. The man who has a band of winter layers considers himself fortunate. He is fortunate. It pays.

Pioneer Clover Meal

makes winter layers out of all hens. It is the best, most natural egg-making food known. It is made from best clover hay, cured by our own special process, which preserves all the natural aroma and the bright green color. It is ground into fine meal—fine as the finest middlings—by specially prepared machinery. It doubles the egg product and is cheap.

Prices: 50 lbs \$1; 100 lbs \$2; 5 lbs 25c. Sample of meal and circulars free.

The BENNETT & MILLETT Co., Box 4 B, Gouverneur, N. Y.



Norwood Poultry Farm,

BEL AIR, MARYLAND,

P. H. McCORMICK, Proprietor.

S. C. Black Minorcas a Specialty.

WINNERS AT AMERICA'S LEADING SHOWS.

EGGS FOR HATCHING,

Black Minorcas, Pekin Ducks, Bronze Turkeys.

At Hagerstown, 1896, won 1st and 5th cockerels, 1st pullet and 2d pen; at New York, 1896-97, won 1st and 2d pullets; at Washington D. C., 1897, won 1st cockerel, 1st and 2d hens, 1st and 2d pullets, 1st pen, 2d Pekin drake, 2d Pekin duck and two specials. Also breeder of Bronze Turkeys, Pekin Ducks and Lop-eared Rabbits. Minorca eggs, \$2 for 15. Bronze Turkey eggs for sale at all times. Stock always for sale. Eggs in season. Write for circulars and prices. Enclose stamp for reply.



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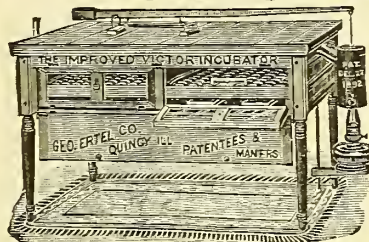
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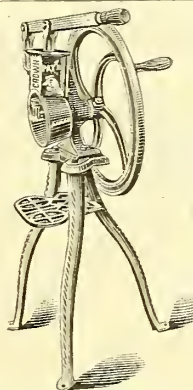
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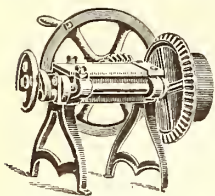


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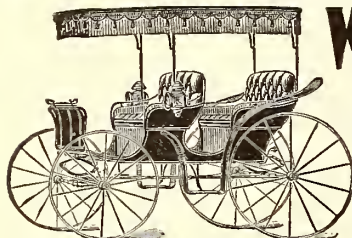
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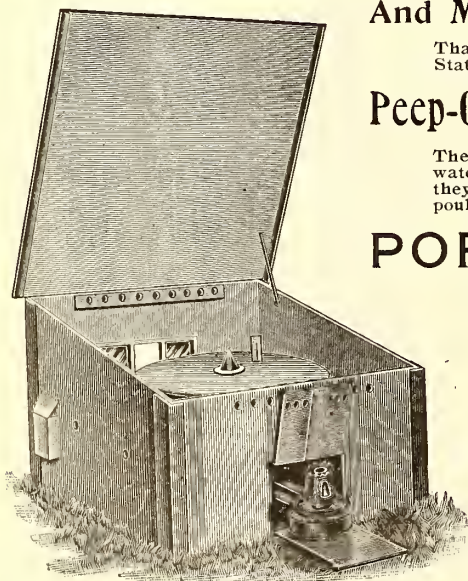
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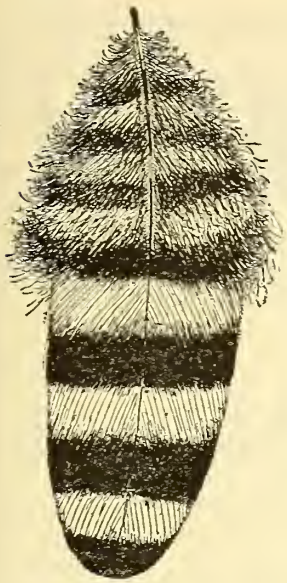
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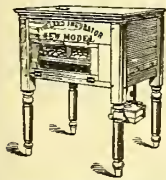
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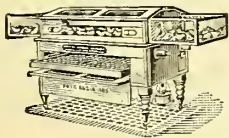
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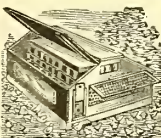
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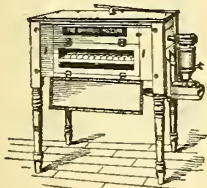


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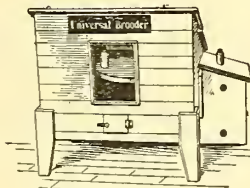
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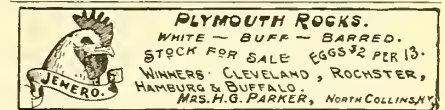
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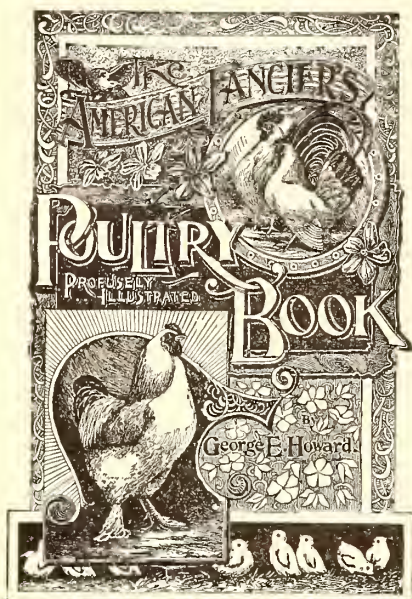
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The Several Varieties of Leghorns.

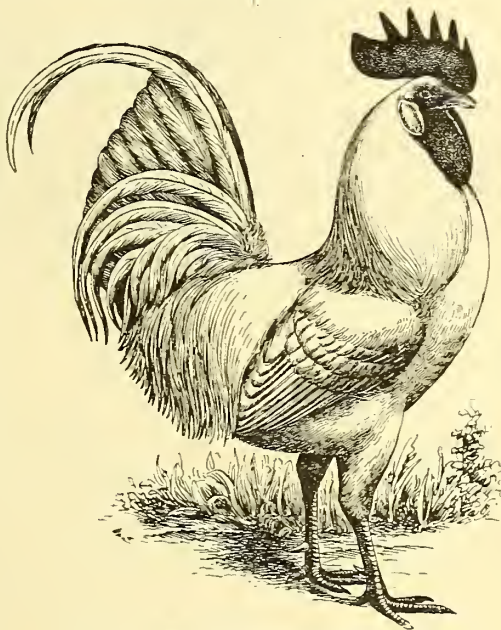
LEGHORNS are the best known of the egg-producing varieties or Mediterranean class. They are the premiers in laying and the standard by which the prolificacy of other breeds is judged. As to the origin of the Leghorns there are differences of opinion, and there is but little information to be found anywhere concerning their early history. It is generally conceded that a race of fowls bearing a close resemblance in many respects to the Leghorn has existed in Italy and other parts of the Continent of Europe for a long period. That this race has been widely disseminated admits also of little doubt, inasmuch as at the present day it is known in Denmark and other countries as the Italian. There seems to be good ground for the statement that Leghorns were first introduced into America from Italy. The story goes that as early as 1834 a vessel from Leghorn brought to this country as a part of its cargo a small shipment of fowls, which were at once named "Leghorns." They immediately became popular, their prolific laying and non-sitting qualities being recognized at this early date.

White and Brown Leghorns were the first varieties known. Modern breeders are responsible for some of the subvarieties of the breed; and, in point of color at least, exhibition birds of to-day, even of the older varieties, vary considerably from those seen at the present time in Italy.

The Leghorn fowl holds the same place among poultry that the Jersey holds among cattle. The ques-

tion of profit in poultry has been decided in favor of egg-producing breeds. Leghorns are lively, active, and of a restless disposition, the best of foragers, and will pick up a good part of their living during the year. They are light eaters and the cost of raising them to maturity is about one-half that of the Asiatic varieties. They mature early, feather quickly, the pullets often begin laying when four months old, and cockerels crow at the same age. They are the best layers, averaging between 150 and 200 eggs per year. Their eggs are pure white in color, and weigh about ten to the pound. As table fowls they are fairly good. By many they are considered excellent. The only thing that can be said against them is that they are small in size. Altogether, they are one of the most profitable breeds of poultry that can be kept upon the farm, and the cheapness of their keeping will allow the raising of two Leghorns for the cost of one Asiatic. They must be warmly housed in winter to lay well and to protect their pendulous wattles from frostbite.

In shape a Leghorn cock should be graceful; body, round and plump, broad at the shoulders, and tapering toward the tail. The tail should be well balanced on a fair length of shank and thigh, the length of leg giving the bird its sprightly and proud carriage. Closeness of feathering adds to the general shape and secures a freedom from angles which always proclaims the pure-bred, typical specimen. The breast should be full, beautifully curved, rather prominent, and carried well forward. Neck, long, well arched, and carried erect; back, of medium length, with saddle rising in a sharp, concave sweep to the tail; tail, large, full, carried upright; the full, flowing tail, and long, well-



SINGLE COMB WHITE LEGHORN COCK.

curved sickles are characteristics of the bird that are much thought of. The wing is long, well folded, and tightly carried. Hackle and saddle-feathers, long and abundant and flowing well over the shoulder and saddle. The legs are bright yellow and free from feathers; toes also yellow, but a dark shade is allow-

able. The head is the prettiest portion of the bird, being short and deep; yellow beak, full, bright red eyes, and bright red face. The comb is single, of medium size, perfectly straight and upright upon the head, free from side sprigs, deeply serrated with five or six points, and bright red. The comb should extend well back over the head, with no tendency to follow the shape of the neck. Ear-lobes, white or creamy white.

The Leghorn hen in many respects resembles the cock, excepting carriage of comb and sexual differences. In shape and carriage the hen is even more graceful and sprightly than the cock, very close in feather, and rather small in body, though somewhat long in back. Her breast is full, very round, and carried high; legs fairly long, and shanks thin; tail carried closely and well up. The general carriage should be upright. Her comb is the marvel of her beauty; it is single and falls gracefully to one side, but not in a limp manner, or so as to obscure the sight. Legs, comb, and face are the same color as in the male, but the ear-lobe is much smaller.

There are six standard varieties of Leghorns: Black, Brown, Buff, Dominique, Silver Duckwing, and White. The Black Leghorn is a popular bird, and a favorite with those who are partial to its color of plumage. The Black Leghorn is mistaken by many for the Black

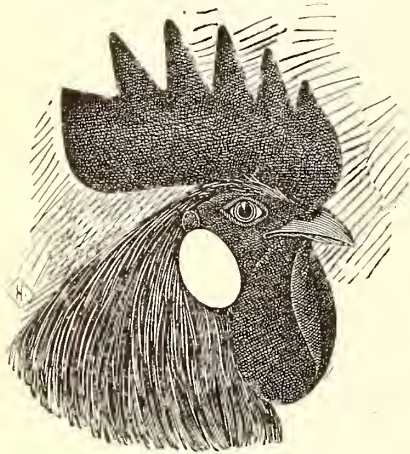
Minorca, but is quite different in type. The Minorca is larger in size, has a longer body, larger comb, and dark slate or nearly black shanks and toes. The plumage of the Black Leghorn is a rich glossy black throughout. Comb, face, and wattles, bright red; ear-lobes white; and shanks yellow, or yellowish black. The Brown Leghorns are one of

the prettiest, as well as the most commonly bred of the Leghorn varieties. They are the most difficult of all to breed to feather. They have merited the confidence of poultry lovers for a long time and their hardy constitutions have thwarted rough usage and promiscuous interbreeding to efface their characteristics. They are a fixed breed and their merits are noticeable from the newly-hatched chick to the oldest specimens; they are stamped with the indelible marks of royalty only to be found in a thoroughbred.

In mating Brown Leghorns opposites must be considered. Should the male be fine in all points except comb or leg, select females strong in this point to mate with him. The most successful breeders use a double mating, one pen to produce exhibition birds of each sex. Fine birds, both cockerels and pullets, can be bred from the same pen by using slightly different types of females. The same male often will breed the finest of both exhibition cockerels and pullets, but it is a rare case to have a female breed both sexes of a remarkable



FEATHERS OF BROWN LEGHORNS: back and hackle of female; hackle and wing-feather of male.



HEAD OF SINGLE COMB BROWN LEGHORN COCK.

quality. When two pens are used, at the head of the pen mated to produce the cockerels place a fully-developed cock with no serious fault, standard color, especially strong in comb, lobe, hackle, and saddle, a dark undercolor preferred. To him mate hens of a shade darker than standard, with small, evenly-serrated, standing combs; a trifle brick color on wings is no objection, as it will give a brighter color on wing-bows of the cockerels. Shafting on the back will also help the black stripe in the saddles. The pullets raised from this pen will be too dark for exhibition, but they will be a great help in breeding cockerels the next season. The male at the head of the pen mated to produce the pullets should be from a pullet strain, and bred directly from an exhibition hen. His color is a trifle light; comb large, but evenly serrated, if thin near the top, all the better; hackle, well striped, but none in saddle; under-color of hackle and saddle may be light gray or white; wing-bows should show more purple than red, as too much red shows signs of being bred from a "bricky" hen. To him mate exhibition females having light brown penciled with darker brown on back and wings, all one shade, free from shafting on back and brick color on wings. These hens should have the large comb, lying over, but firm and strong on the head, so it does not lie close to the eye and face. The cockerels raised from this mating are the birds to use for breeding females the next year. By breeding Brown Leghorns in this manner we have two distinct lines of blood, and they should never be crossed.

The Buff Leghorn is the most recent acquisition to the Mediterranean class. It is a beautiful bird, and one that will win its way wherever bred. Buff-colored



HEAD OF SINGLE COMB BROWN LEGHORN HEN.

birds have many admirers, and those who have bred them are pronounced in praise of their qualities. Besides having the general characteristics of the Leghorn type, the Buff Leghorn cock has rich buff-colored hackle and saddle, in shade from lemon to cinnamon, but of even, solid color in keeping with the rest of the plumage; the back and the wing-bow exactly match the plumage; tail, of the same general tint, but richer, deeper buff is preferable, the Standard giving for tail a rich, deep buff or copperish-bronze. The remainder of the plumage is of a slightly lighter shade, but even in color throughout, with no semblance of a patchy or mottled plumage. White and black feathers in plumage are objectionable; solid white or solid black feathers will disqualify the bird. The hen is of the same color as the cock.

Dominique Leghorns are not so generally known. Their color is much like that of the American Dominique and Barred Plymouth Rock, and is what is known as "Cuckoo" by English breeders. The body color is grayish white, each feather regularly crossed with parallel bars of blue-black, producing the effect of a bluish-tinged plumage. This color is the same throughout. The ground color of each feather is a clear, light bluish gray. The shanks and toes are bright yellow and eyes bright red. Silver Duckwing Leghorns are not generally bred in this country, though they are frequently seen in the show-rooms. They are considered as profitable as any of the other Leghorn varieties, and in point of beauty they are very interesting and fascinating. They take

the name "Duckwing" from the similarity of the steel-blue wing-bar to that of the Mallard or wild duck, the name being first given to a variety of Games—the Silver Duckwing Game. The hackle and saddle-feathers of a Silver Duckwing Leghorn cock are pure silvery-white, without the slightest straw or creamy tinge, with a narrow black stripe along the center of the lower hackle-feathers. Back, saddle, wing-bow and wing-bay, pure white; breast, under parts, wing bar, and tail, dense lustrous black. The Silver Duckwing Leghorn hen has a silvery-gray hackle, with a narrow black stripe through the center of each feather. The breast is light salmon, shading off to gray toward the sides; the body color when viewed at a short distance should appear gray, with a faint bluish tint all over. A tendency to ruddy gray, either in ground color or penciling, is objectionable. The tail is black or dark brown, except the two upper feathers, which

are light gray. The penciling or markings are irregular or wavy.

The White Leghorn, like the Brown, is one of the most generally bred of the Leghorn varieties. It is, no doubt, the most advantageous to breed for profit, and the easiest to raise on the farm. Being of one color in plumage these birds are more successfully raised and cared for than the parti-colored varieties. Their plumage is pure white throughout, and feathers other than white will disqualify them. It has been a matter of much speculation as to which variety of Leghorns is most prolific in egg production. This is a difficult question to properly adjust to the satisfaction of the specialty breeders, but from a conservative standpoint it is generally considered that the Whites have slightly the advantage over the others. Phenomenal individual egg records have been made by almost all varieties, but the above opinion is advanced

from the general results obtained from various sources. There are subvarieties both in Brown and White Leghorns—the Rose Comb Brown and the Rose Comb White. The only distinguishing difference between the last named and the other varieties is in the comb. The Rose Comb White and Rose Comb Brown Leghorns have a small rose comb, square in front, firm and even upon the head, tapering evenly from front to rear, without inclining to one side, the top comparatively flat and covered with small points, or corrugations, terminating in a well-developed spike in the rear. There is no standard weight given for Leghorns, and there is a difference of



SINGLE COMB BROWN LEGHORN COCK.

opinion among breeders of this variety of fowls as to their size, some preferring a small bird, and others a larger bird, approaching the Minorca in size. The latter is the more preferable to breed, and the larger the bird can be bred in size, and still retain its Leghorn characteristics, the more valuable is the bird.—*Bulletin No. 51, U. S. Department of Agriculture.*

FEEDING MEAT.

Ground meat or ground bones should not be mixed with other foods. It should be fed separately as a food by itself. There should be certain meals on special days, for giving it to the hens. For instance, give it at night every three days in a trough, unmixed with other food, so that the hens will have nothing but the ground meat or ground bones for that meal. Do not feed it oftener than twice or three times a week.

THE POULTRY INDUSTRY.

The American Hen an Important Personage—She is the True Standard for Comparing the Work of Production—Her Value to the Country.

Facts and Figures Tell the Tale.

I love the hen!

I am glad to make a public acknowledgment of that fact. I think it is generally admitted that, in order to win a horse race, a man must be a half horse—a good dairyman must certainly be half cow—a first-class shepherd is likely to possess a mutton head—a hogman will naturally find hairs in his beard of more than ordinary strength. In this view of the case, we poultry fellows have the best of it, for we can feel the wings sprouting on our shoulders. A bit of doggerel occurs to me which may, possibly, appeal to those of you who have given some part of your personality to a member of the underfoot or four-footed world:

"There's lots of folks that love a horse
About as well as they know how,
We ain't all built alike—of course;
There's them that do just love a cow
Above their wives. Some folks will sleep
When cows or horses have the talk;
But start a word edgeways on sheep,
And see the way their tongues will walk.
And some folks sit up half the night
To sing the virtues of the hog;
And I know folks uncommon bright
Who rub their love thick on a dog.
I have, as now I must rejoice,
No quarrel with my fellow men—
But of all animals my choice
Forever is the laying hen.
She ain't so big or yet so stout
As hog, or horse, or sheep, or cow,
And yet she knows what she's about.
She pays her bill—that suits me, now,
So let them brag up all their stock
And satisfy themselves; but, then,
My mind is made up like a rock—
You can't fool me, I love the hen!"

Mrs. American Hen is, after all, no unimportant personage. When I was a boy I was told that, if an elephant could only have muscles as hard as those of the flea, he could easily move the world, if a place could be found for securely fastening his tail. I have never doubted it. It is one of the things that can not be proved. I can not see how the elephant's muscles are to be hardened by crossing him with the flea, however; so doubting is safe. I know now that, if the elephant could be made to produce proportionately as much food as the hen, hunger and starvation would be unknown. Our standard for the measurement of power is the work of the horse. That is wrong. It is like going on a silver basis. Hen power is the true standard. Compare the work of production done by 1000 lbs. of horse, 1000 lbs. of cow, 1000 lbs. of average man and 1000 lbs. of hen, and you will be astonished to see what a loafer the horse is by comparison.

I wish to call attention to the fact that there are in this country to-day, in round numbers, 375,000,000 chickens and 40,000,000 other fowls, such as ducks, geese and turkeys. During 1897, the hens laid 14,400,000,000 eggs. The export price at New York City averaged 15c. a dozen, which makes the value of the egg crop \$165,000,000. Poultry sold as meat, as broilers, boilers and bakers, brought \$125,000,000 more; making the total hen crop, at a very conservative rate, \$290,000,000. You gentlemen are accustomed to deal with values that are concentrated, brought together into immense blocks, so that the value is at once noticeable. This great value of the hen crop is scattered broadcast. We deal with it chiefly from the individual side, and it is astonishing to realize how

much it is in the aggregate. In order that these figures may be appreciated, I will call your attention to a few statistics:

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| Earnings of poultry..... | \$290,000,000 00 |
| Total of pensions..... | 139,280,078 15 |
| Total of school expenditures..... | 178,215,556 00 |
| Total interest of mortgages..... | 76,728,077 00 |
| Value of swine..... | 186,529,745 00 |
| Value of potato crop..... | 78,984,901 00 |
| Value of tobacco crop..... | 35,574,220 00 |
| Value of cotton crop..... | 259,164,640 00 |
| Value of oat crop..... | 163,655,068 00 |
| Value of wheat crop..... | 237,938,998 00 |
| Salaries of all school teachers..... | 116,377,778 00 |
| Value of all church property..... | 679,630,139 00 |
| Total military expenses..... | 52,947,075 00 |
| Value of all minerals..... | 218,168,788 00 |
| Value of hogs..... | 186,529,745 00 |
| Value of gold..... | 46,610,000 00 |
| Value of silver..... | 72,510,000 00 |
| Value of wool..... | 38,146,559 00 |
| Value of sheep..... | 68,167,725 00 |
| Value of milch cows..... | 263,955,545 00 |

In one year the hens of the country will pay the net bonded debt of Greater New York and have enough left to buy all the gold and the silver mined during the year—that is, if they could borrow \$10,000,000 from the ducks and geese. One year's earnings will buy all the minerals produced in a single year, and will pay, in addition, every cent of the interest on farm mortgages. The American hired man, taken as an individual, is a person of small consequence. He is usually neither dignified nor desirable; yet the 3,454,675 farm laborers in the country earned last year in cash, board not included, \$362,740,665. The fact is that the hens and the hired men, taken together, in two years' earnings would buy all the church property and have enough left to pay all pensions and all our public school teachers. The same sum would pay operating expenses for all American railroads for one year and also pay the wages of all the clothing makers, all the iron workers, all the cotton mill hands and all the carpenters in the land. One bushel of wheat costing ninety cents will feed a hen for 300 days. If she lays 100 eggs, worth two cents each, she will increase the value of the wheat to \$2.00, which is enough to haul one ton of freight 250 miles or to haul one passenger eighty miles. After she has done all this, she will return twenty-five cents worth of the fertilizing value of the wheat to the soil for another crop.

Now a word about the egg itself. It is the handiest form of food for working people. During the season of cheap eggs you will be astonished to see how many workmen in the city eat fried egg sandwiches for their dinner. If you would go among them during the dinner hour you would see them everywhere eating this cheap and excellent substitute for meat. I call attention to this to show that Mrs. American Hen is doing her full share to contribute the nerve force and the strength that human hands employ in building your great and magnificent city. In Greater New York, including Jersey City, Newark, and Elizabeth, there are 4,029,577 persons. If we could get these people to average two eggs per day for one year, we should need 2,941,547,410 eggs, which, placed end to end, would make a string 111,422 miles long and would pave a street 60 feet wide for more than 1,500 miles and would require a building 150 feet square and 155 high to hold them all. I have in these six small bottles the different parts of an average egg, picked apart by the chemist so that we may compare them. Here are 650 grains of water, 135 grains of oil or fat, 108 grains of lime, 80 grains of albumen, 26 grains of sugar and 10 grains of ash. Take, for example, this small bottle of water, which represents the moisture in one single egg. I would like you to realize what that means. The hens of America last year packed inside the shells of their eggs, in round num-

bers, 650 tons of water. This is enough to fill a canal one mile long, 20 feet deep and 300 feet wide. The shells required to hold this water contained 110,000 tons of lime. An acre of corn requires about 300 tons of water during the growing season to produce a full crop. I will call your attention to the fact that the hens of the country last year put enough water into their eggs to irrigate over 2,000 acres of corn. This little bottle contains 26 grains of sugar—but a fraction of a teaspoonful. In the 14,400,000,000 eggs laid last year, there were, on this basis, over 50,000,000 lbs. of sugar. I mention these facts that we may realize the wonderful work performed by our little friend in feathers. Sometimes, when we touch only the one corner of a great enterprise, we do not realize how large it is.

Now, figures do not lie, although they will lie heavy on a fellow's pocketbook when they go wrong. Comparatively few Americans ever become millionaires in fact. It is, however, a glorious privilege afforded most of us that we may be millionaires in theory. My grandfather owned a whale oil factory at Plymouth, Mass. I am told that 75 years ago he made some remarkable figures. He said that in the year 1900 there would be 75,000,000 people in this country; that whale oil would be worth \$16 a pound because it would be the chief lighting fluid and that every one of his grandchildren would be a millionaire. Now we have the population that the old gentleman prophesied, but the whale ships are rotting at the wharf in New Bedford, and I lack nearly \$999,000 of being a millionaire. The figures were right in their day, but the old gentleman could not know that some day a prospector would bore a hole into the ground and start the world into a blaze of light with petroleum. The world is happier and brighter because I am not a millionaire from the profits in whale oil. I am happier because I have the great privilege of figuring out a profit in the chicken business. What I want to say is that while figures may go wrong in some lines of business, it is always safe to figure on chickens. There can be no ghost of a substitute to rise up and call us down. We may have lime in our flour, lard in our butter, peanut shells in our coffee, sawdust in our tea, basswood in our hams, and sand in our sugar, but the eggs can not be successfully counterfeited. Our little friend, the hen, with her marvellous inside fixtures, will still continue at the old stand, putting her humble grist together and shelling out this most miraculous of animal products, the egg. And now let me say a word about the life that is inside this egg, for the egg takes inert and dead matter and gives it life and vigor and force. A broiler is expected to die young, like most of the good things that are pushed along to an early grave. He has no hope of posterity, for he never gets beyond his baby qualities. His father is a mere incident; he must look to his mother for the qualities that are to make him fit for the table of a prince. I think you will agree with me, gentlemen, that this idea of the preponderating influence of the mother's side holds true of both the lower and higher animals. Few people can give the first name of Abraham Lincoln's father, but his mother has even had a race horse named after her. George Washington's mother has been idealized, but his father will go down to history only as the man who had failed to do his duty by his son when he ruined a valuable cherry tree. If you will pardon me for a bit of personality, I will say that at the battle of Bunker Hill, the British sloop of war. Lively, sailed up the Mystic River and made things lively for the Americans. On board that ship, wearing a red coat

and serving King George to the best of his ability, was Lord Cuthbert Collingwood, who had the honor of being my ancestor! At the same time, upon the hill beyond the breastworks, was a man without any coat at all, an old farmer, who was my mother's grandfather. The old fellow fired away the last grain of powder in his horn and then he clubbed the old gun and gave two or three of King George's soldiers a headache that they long remembered. But what I want to say is that through my father's side fate has given me the name of the red coat. It is an honored name and I am proud of it, but fate has been kinder still, and has given me, through my mother's side, from the old farmer of Bunker Hill, his sturdy Americanism, love of independence, and pride that prompts me to stand on my feet and say, "I am one of those who keep step with the privates who walk in the common ranks of life." I am very glad that the conditions were not reversed and that my legacy from the red coat did not come to me through my mother. My point is that in the production of eggs for broilers, we must pay extra attention to the hen. The chief quality wanted in the male is vigor and strength. The broiler and its digestive organs must be sound or it will not stand the strain. My experience has been that many so-called pure breeds have been bred to feather and fine points, to the injury of heart, lung and gizzard. Where a fowl is expected to make a slow and steady growth to maturity, we may gradually improve its constitution as we go on and feed away some of the defects of its breeding. As a rule, children who take prizes at baby shows would be most likely to win leather medals for vigor and beauty at the age of 21. The feeding and forcing of the broiler is abnormal at the best, and it must have vigor or it will break down. For my part I would rather have some tough old scrub, frost bitten and scarred, to fertilize eggs for broilers, rather than some petted, pure blood with better tail and feathers than lungs and with hardly enough energy to crow when his wife lays an egg. I should expect my chicks in that case to inherit from the old veteran a little of the vigor that had carried him through wind and rain and hunger to the championship of the barnyard. Whenever, in the history of our country, men have been needed to absorb in a few short months the remedy for the mistakes of long years of bad legislation, I observe that He who rules the destinies of this country does not go to the sunny isles of balm to find a man for the hour, but rather to the frost and the fog of the North, where human character has been hardened and tempered by rubbing against troubles and the hard conditions of life. I am satisfied that too many chicks inherit from their pampered fathers only the disposition to lie down and die when forced with a supply of rich food.

And this egg is something more. It is the great storehouse for hereditary forces. These forces may pull together like a well-bred yoke of cattle, or they may pull apart like a cat and dog tied together. You could hardly hope to overcome these forces unless you start back at the egg. For example, last fall I bought, in the ordinary live-poultry market in New York, 60 hens, picking them out by their general shape and appearance. I assume that there is a certain egg type or shape of hen most likely to be associated with egg production. We look for certain types in all animals when we wish to perform certain kinds of work. If I wanted to hire a man to milk the ordinary Jersey cow, I would not want a man with long legs; if I wanted a hired man who would not be given to back talk, I should certainly avoid one possessed of a chin like

Corbett's. I would not hitch Maud S. to a stone wagon or expect to beat her on the race-track with horses that hauled two tons over level road. These hens that I speak of were selected because they apparently conformed to what is known as the "egg" type or shape. I do not even know where the hens came from. We have fed them with the greatest care, yet during the month of December the few eggs they laid cost us \$0.37 each. That is certainly a case where chicks, or rather their evil tendencies, come back to roost upon one's pocketbook. We assume that scientific feeding can not overcome the tendency of unscientific breeding, after the hen has matured; in other words, a trait is stronger than a type. There may be hope for the baby but little for the old hen. The mothers and grandmothers of those hens were not bred for egg production. This flock is pulled every which way by hereditary forces that prompt them to take revenge upon me for the wrongs done their ancestors.

Another curious thing that we find about this flock is the fact that there are hereditary tendencies for certain foods. Many of these hens have evidently been fed entirely upon corn. They eat meat and other grains largely under protest. Hens are much like men in this respect. An ex-Mayor of New York told me not long since that he can not get through the week without at least one square meal of corned beef and cabbage. Possibly there are persons who can tell in what country that tendency was formed. A genuine Yankee can not forget the baked beans and fish balls of his early life. Let me feed a hen for the first three months of her life, and I will largely fix her feeding habits and also have something to do with the food her children crave.

I think most poultrymen have changed their methods of feeding since the truth became generally known that meat in some form gives by far the best material for a hen's muscle makers. Some of us who are millionaires in theory have been taught severe lessons in economy during the past few years. I know a man who, in 1890, did not think it possible for his family to live on anything cheaper than porterhouse roast beef. Economy has forced him to realize the value in a pot roast or even a shin bone. It has been a profitable surprise to such men to realize that the nerve and force in a pot roast will enable them to retain their standing in church and state. In like manner we have been forced to hunt cheaper rations for our hens, and we have found them in various forms of meat. The introduction of the green-bone cutter has really started a new industry and has doubled the cost of bones in many local markets. There was a time when the faithful old horse, at death, was hauled off to the swamp. Now his meat may be cut and ground and dried into an excellent food for the hens. The chicken business follows manufacturing and other branches in the fact that advance is made along two lines. We must improve the engine so that it will secure more power from a given amount of fuel, and we must utilize what was formerly considered waste. I am told that 27 years ago it was necessary, with the very best steam engines then in use, to evaporate 21 pounds of water in order to produce one-horse power. To-day, modern engines do the same work with 11 pounds of water. So with poultry—I am satisfied that it is possible, by careful selection and breeding, and yet more careful feeding, to double the number of eggs which the average hen will lay, or to double the weight of broilers that may be hatched from her eggs. We must keep up the vigor and strength of our poultry and take cheap sources of meat for their food.

A hen is worthy of the best work of the fancier, the farmer, or the business man. The money obtained for her products is widely distributed. It circulates everywhere; it can not be cornered; it goes into every home, every farm, every town, every grocery store in the land. The hen is a chemist, a banker and a manufacturer. She holds the fort from the Klondike to Cape Horn, and she is rolling mortgages away upon her eggs and cackling a brave defiance when the wolf howls at the door. For my part I end as I began. "*I love the hen!*" And I give you this bit of sentiment to go with her egg:

"The fierce old eagle on the flag has had her praises sung
By poets and by orators, since this fair land was young.
A wicked, hard, old fighter he, but in our peaceful day,
A weary old back-number is the selfish bird of prey.
Old Uncle Sam, from war's alarms, may now take long release,
Beneath his vine he now has time to ply the arts of peace.
Your Uncle needs no fighting bird out in his peaceful pen,
Far better let the eagle go and raise the *Business Hen*.
The eagle and the old war flags, with faded stripes and stars,
May better serve as memories of battle-painted scars,
Aye! Let them serve as memories—a heritage of fame
That generations yet unborn may in all justice claim.
But, in these piping times of peace, the eagle off his perch
May wisely step; and when with care, old Uncle Sam shall search,
A substitute; I nominate our friend, The *Business Hen*,
A worthy type of energy and skill for all true men.
Down with the eagle from the flag, down with his motto slay!
Up, lively, with the *Business Hen* and make that motto lay!
Far better is the cackle when an honest egg is born
Than that wild eagle's screaming when a human heart is torn.
Yes, give the hen a roosting place above the starry flag.
The *Business Hen*! Long may she wave! The country's pride and brag,
And bred to patriotism, from her healthy eggs we'll hatch
The spunk to keep our Yankee land still toeing at the scratch."

—Herbert W. Collingwood's address before the New York Farmers.

OYSTER SHELLS AND GRIT.

The shell of an egg contains about fifty grains of the salts of lime, or about twenty grains of pure uncombined lime, besides the lime that is in the mineral matter of the white and yolk. The quality of the shell should be considered when feeding, by selecting those foods which are richest in lime. To produce the shell of one egg there is needed 100 grains of lime.

Repeated experiments have proven that oyster shells are not a necessity for shell material, but at the same time valuable as grit. The feeding of oyster shells during the laying period is to be recommended. One pound of crushed oyster shell contains lime enough for about seven dozen eggs. Fine gravel containing limestone will probably as well supply the deficiency of lime existing in most foods, but use of the sharper grits with it may be well. Long or sharp splinters of glass or dry bone should be avoided in the grit furnished. The size of the particles of grit had better be larger than a kernel of wheat and smaller than a kernel of corn. An unlimited supply of well-pounded glass has been found to produce no bad results where the food and the grit accessible to the fowls contain an abundance of lime; but where the food is deficient in lime, and no other grit is obtainable, hens eat an injuriously large quantity of glass. There should always be an abundance of grit within easy reach of the fowls; a deficiency will retard the digestion and weaken the constitution.

EARLY RISERS.

Hens are early risers and should be fed as soon as they come off the roost. A good plan is to have a trash pile with a few handfuls of wheat or shorts scattered over it for the hens to scratch for. Start a hen at her work early in the morning, keep her at it and she will invariably lay before night.

PHEASANTS.

Pheasants are very beautiful birds, and may well attract many admirers of fine feathers, but in this country as in England, when the supply of quail, turkeys, and waterfowl has been greatly decreased, they will be reared to stock the fields and wooded hills for the pleasure of the sportsman and hunter. But probably they will never reach the popularity here that they have in the old countries for a number of reasons. There, the large manorial estates, covered with dense woods in part and in other places with only scattering trees, and surrounded with well-cultivated fields, afford all that could be wished for raising the birds. There, the vermin that invest the coverts of the birds have been killed

by the game keepers, and strange dogs and cats are shot on sight. Here, in our well-settled portions of the country, there is a tendency to divide the larger tracts of land into small farms, which are generally well cultivated and give very little shelter to the birds. As the birds wander, there is not much inducement for the owner of a small farm to rear them, since when they are liberated they may go on to another's ground and be shot by him, and the raiser may reap no benefit. Another reason why they will not become popular here is because of the general feeling against the enactment and enforcement of a rigid law against poachers. Poaching is not here considered a crime meriting a severe penalty, and the poacher, even if caught, will escape with a fine of a few dollars. In England keepers are employed to guard the game, and when poachers are caught they are severely dealt with, but the raiser of pheasants here must guard against the trespasser as best he can. The foregoing applies to the pheasants after they are liberated. The rearing in confinement is very easy, and the work quite simple.

First select a location, preferably near the residence of the owner, that he may watch over the aviary. The best location is a hill-side, facing the south. As in locating a poultry-house, sandy or gravelly soils should be chosen. Where this can not be had, the soil should be thoroughly drained. Next the building must be constructed. The usual size is 12 by 12, but many

prefer 10 by 10. Set posts in the ground at the four corners. Nail on the tops and bottom, 2 by 4 joists. If the ground is not firm it is best to strengthen with other posts between those at the corners. The tops of the posts should be between four and five feet high. A board should be nailed on the posts midway between the top and bottom. From this to the bottom should be nailed heavy boards to keep out cats, dogs, and other animals. The remainder of the sides should be covered with wire, preferably fine wire, which will prevent small birds from entering and eating the food intended for the pheasants. The tops should also be covered with fine wire. Perches should be provided. Drive two posts into the ground and place between them a pole from one and one-half to two inches in

diameter. This should be two feet above the ground. This structure will accommodate four or five hens and a cock. The food of the pheasants is the same as that given to any ordinary fowl. A liberal supply of green food should be given at all times, and a frequent change in the grain ration is beneficial. The eggs should be gathered regularly, and not allowed to lay around the pens, as birds in confinement often become egg-eaters, and when this habit is once fastened on a bird the only sure cure is killing. The eggs of the pheasant are generally hatched under hens, choosing birds of light weight to prevent the eggs being crushed.

When collecting the eggs the keeper should, if possible, wear the same clothing, because at this time great damage may be done if the birds get frightened. After collection, the eggs should be placed in bran, point downwards, and turned over every day on to the opposite end until they are put under the hens. This should be most carefully done, for success depends in a great measure on it. If the yolk once gets displaced through lying too long on one side the fertility of the egg is destroyed.

A sufficient supply of eggs being obtained, put down eight or a dozen hens, according to the number of eggs to be hatched, giving each hen about fifteen eggs. More are sometimes given, but as a rule, this number is quite sufficient; in fact, we invariably have better success with that number.

SILVER
PHEASANT.CHINESE EARED
PHEASANT.

The Feather, Washington, D. C.

Published the 15th of each Month by
GEORGE E. HOWARD & CO.

Subscription 50 cents a Year in Advance.
Foreign Subscriptions, 75c a year in Advance.
Single Copies 5 cents.

GEORGE E. HOWARD, Editor.

All matter intended for publication should reach us by the first of the month preceding the issue in which the same is to appear.

Write your name in full, giving full post office address plainly, so there will be no mistakes.

When writing for publication use only one side of paper. Brevity is the soul of wit.

Advertising in The Feather.

The Feather now offers the best and cheapest advertising in the country. Its circulation has increased more than one hundred per cent. during the last year. Its advertising rates are lower than those of any other journal of equal standing and circulation.

The Feather reaches the people that transact the poultry and pigeon business of the country. Its publishers have made a special effort to include among its readers all the most successful and most enterprising fanciers. Advertisers are often astonished by the large amount of business which comes to them after running their card a few months. There is no other medium which reaches so large a proportion of readers in all sections of the country who are able and willing to buy when they learn who are offering the stock or supplies which they need.

Net Rates for Advertising.

| Space | 1 mo. | 3 mos. | 6 mos. | 1 year. |
|--------------|-------|--------|--------|---------|
| 1 inch | 1 50 | 4 00 | 7 50 | 12 50 |
| 2 " | 2 86 | 7 50 | 13 80 | 23 50 |
| 3 " | 4 00 | 10 70 | 19 80 | 34 00 |
| 4 " | 5 00 | 13 50 | 25 00 | 43 00 |
| 5 " | 6 00 | 16 20 | 30 00 | 51 00 |
| 6 " | 7 00 | 18 80 | 35 00 | 59 00 |
| 8 " | 9 00 | 24 30 | 45 00 | 76 00 |
| 1 col. | 10 40 | 27 40 | 51 00 | 85 00 |
| 1/2 page.... | 14 00 | 38 00 | 70 00 | 120 00 |
| 2 cols. | 18 00 | 48 75 | 90 00 | 154 00 |
| 1 page.... | 25 00 | 68 00 | 125 00 | 220 00 |

Advertising Rates to Take Effect July 1, 1899.

| Space | 1 mo. | 3 mos. | 6 mos. | 1 year. |
|--------------|-------|--------|--------|---------|
| 1 inch | 2 00 | 5 35 | 9 40 | 16 00 |
| 2 " | 3 75 | 9 40 | 16 80 | 29 00 |
| 3 " | 5 35 | 13 50 | 23 50 | 40 00 |
| 4 " | 6 75 | 16 80 | 30 00 | 52 00 |
| 5 " | 8 00 | 20 00 | 35 00 | 64 00 |
| 6 " | 9 40 | 23 50 | 41 50 | 75 00 |
| 8 " | 12 00 | 30 00 | 52 80 | 95 00 |
| 1 col. | 14 00 | 35 00 | 65 00 | 112 00 |
| 1/2 page.... | 20 00 | 50 00 | 90 00 | 162 00 |
| 2 cols. | 25 00 | 65 00 | 115 00 | 210 00 |
| 1 page.... | 35 00 | 90 00 | 165 00 | 300 00 |

Bills of five dollars or less are payable in advance.

All other bills are payable quarterly after the first insertion for the quarter.

Five per cent. discount will be allowed on bills of over five dollars which are paid in advance.

No advertisement will be inserted at any price from persons who are not responsible or who fail to deal honestly with their patrons. We particularly request our readers to notify us of any advertisers whom they believe to be dishonest or fraudulent. Honest advertisers will be protected—dishonest ones will be denounced.

New advertisements must be received not later than the 1st of the month. Copy for change of advertisement must be received not later than the 25th of the month preceding.

Remittances should be made by postal money order, registered letter, bank draft, or express money order.

All remittances should be made payable to

GEORGE E. HOWARD & CO.,
S. W. Cor. 8th and H Streets, N. W.,
Washington, D. C.

Entered at the Post Office at Washington, D. C. as second-class matter.

APRIL, 1899.

ADVERTISERS Must have copy in for change of advertisement not later than the 25th of the month preceding. Copy for new ads must be received by the 1st of the month to insure insertion.

15,000 COPIES FOR APRIL.

AFFIDAVIT.

I, Charlie Wood, pressman for the firm of George E. Howard & Co., publishers of THE FEATHER, Washington, D. C., being first duly sworn, state that I am printing 15,000 copies of the April, 1899, number of THE FEATHER.

Signed: CHARLIE WOOD.

Subscribed and sworn to before me this 12th day of April, 1899.

[SEAL] LOUISE F. DYER,
Notary Public, D. C.

The circulation of THE FEATHER has been doubled within a year. What is of more significance, the paid subscription list has been more than doubled within that time. This great achievement is the result of unremitting effort to improve the paper and to furnish the highest class of reading matter together with the finest illustrations. No pains and no money have been spared to give our readers the best that can possibly be obtained.

The sworn circulation of THE FEATHER was:

DECEMBER - 10,000
JANUARY - 10,000
FEBRUARY - 12,000
MARCH - 15,000
APRIL - 15,000

Average for 5 mos., 12,400

This average will not only be maintained but rapidly increased. Under these circumstances we must increase advertising rates to give an adequate return for the immense amount of paper consumed in printing the advertising pages. Beginning with July 1899, therefore, the advertising rates for a given space will be increased one-third.

This advance does not mean that the advertiser will be paying more for what he gets or that advertising in THE FEATHER will be dearer than heretofore. On the contrary we have never offered advertising so cheap, considering the circulation given, as we shall during the coming year. Last year our basis was \$1.50 an inch for one year; next year it will be \$2.00 an inch a year. By doubling the circulation, however, we shall give next year for \$2.00, as much advertising as was given last year for \$3.00.

We have a special proposition to make, now, which will be open for the next three months, and which will give advertisers an opportunity to secure the full advantage of our increased circulation for next year without any increase in rates. That is, we will accept cash contracts during April, May and June for advertising, in our available space for a year in advance, at present rates.

There is no better time for advertising than the summer, when two-thirds of the competition has abandoned the field, and when every advertisement is easily found and read. It is at this season that the shrewd business man gets in his work, and makes his name and specialties familiar to the reader. The orders may not come until fall and winter, but when the proper season arrives, the old acquaintance is apt to be preferred to the new comer whose card is seen for the first time.

The publishers of THE FEATHER

guarantee that hereafter no edition will be less than 12,000 Copies and that the average will be much larger than this. It is our aim to double the circulation once more within the next twelve months. If we succeed, as we expect to, the average circulation for the year will be not less than 20,000 copies. We shall not withdraw the offer to accept contracts for the coming year at the old rates without due notice, but we can not increase the size of the paper to accommodate new advertisers at this low price, and if our available space is all taken before June we must then decline further business until the new rates go into effect.

Now is the time to make sure of the space desired for the season of 1899-1900. We shall, however, only accept advertisements from persons engaged in legitimate business, who transact their business in an honorable manner, and who fulfill their contracts. No others need apply.

* * *

Our colored supplements have scored a great success. They have received great praise from our subscribers, and we are pleased to note the interest that is being taken in them. Our first supplement, Barred Plymouth Rock cockerel, in half-tone, was published in December; the second, Light Brahmas, in colors, January; the third, Black Langshans, in half-tone, February; and last month, March, was our latest success in colors, White Wyandottes. This month we publish the fifth of our series, Buff Leghorns, and next month, May, will be another grand supplement in colors. These valuable pictures should be in the homes of all lovers of poultry; they are works of art, and give the true types of the most popular varieties. Each number of THE FEATHER will contain one of these supplements, and those desiring same should not delay sending in their subscription. We are over-run with orders for back numbers, but can not supply them. Our large edition of 15,000 copies is quite exhausted in a month, and the only way to secure them is by having your name on our subscription list. Send in your name now, and induce your friends to do the same. It is the cheapest journal published, and we want our lists to increase tenfold during the coming year. Subscribe now.

* * *

The publishers feel that their apologies are due to their many readers for the late appearance of the March number of THE FEATHER. As was explained in that number, our printers had delayed us month after month until we became so exasperated that we withdrew our patronage and purchased a complete printing office of our own. There were, however, so many unexpected delays in setting up presses and getting all the machinery to work smoothly, together with so much extra work in printing the colored supplement, that our journal was really issued later than in February. We now have our work up to date, however, and we hope there will be no further disappointments on account of THE FEATHER not being received when due.

* * *

The great success which has attended the publication of the few volumes heretofore issued by the publishers of

THE FEATHER, has satisfied them that there is a demand for first-class, original literature on subjects relating to the poultry and pigeon industries. In order to supply this demand, arrangements have been made to publish a library the volumes of which will appear once in two months. These books will all be standard works by the best authors and will do much to assist the practical poultry raiser and the fancier, and to advance their interests. Each volume will have the uniform price of fifty cents, but yearly subscribers will receive the books promptly as published for \$2.50 a year.

The books already issued or in preparation, are as follows:

- No. 1.—THE AMERICAN FANCIER'S POULTRY BOOK. By George E. Howard. 3d edition. March, 1899.
- No. 2.—MONEY IN SQUABS. By J. C. Long and G. H. Brinton. 3d edition. Will be ready for distribution, April 15, 1899.
- No. 3.—THE DISEASES OF POULTRY. By Dr. D. E. Salmon. Will be ready for distribution about June 15, 1899. As there will be a great demand for this book we will receive orders now from all who send fifty cents, and will mail the books in rotation according to the receipt of the orders.
- No. 4.—POCKET-MONEY POULTRY. By Myra V. Norys. Will be ready about August 15, 1899. Some chapters of this excellent guide to successful poultry raising have already appeared in THE FEATHER and have attracted great attention. It is undoubtedly the best book ever written for women who desire to increase their pocket money by going into the poultry business. No one knows so much but that they will learn from this book.
- No. 5.—PIGEON KEEPING. By J. C. Long. Will be ready about October 1, 1899. This is a most thorough and exhaustive treatise on the rearing and management of pigeons from an American point of view. It is a book that has long been needed in this country, and will be decidedly the best pigeon book on the market.

We will club any one of these books except the Diseases of Poultry with THE FEATHER for 50 cents a year until further notice. The Diseases of Poultry and THE FEATHER will be clubbed together for 75 cents. Any two books on this list will be sent for 75 cents, if ordered at the same time.

We regret that on account of the expense of securing the manuscript and illustrations for the Diseases of Poultry we can not club it at the same rate as the other books in the library. It was at first thought that it would be necessary to make the price one dollar a copy, but on further consideration we decided to put it into our library at the popular price of 50 cents.

We are sure that this effort, which will require great expense on our part, will be appreciated and we ask the co-operation of our many friends to make it a grand success. We promise, by far, the best line of books every attempted in this country for the price.

* * *
The Wyandotte Supplement. We have received many complimentary letters and congratulations in regard to the beautiful color.

ed supplement presented with the March number of THE FEATHER. It is unanimously pronounced the finest colored plate ever issued with a poultry journal in the United States. There are some agreeable surprises of this kind still in store for our readers which, from their enthusiastic praises of our past efforts, we are sure they will appreciate. THE FEATHER chromotone process is a great improvement over any methods heretofore used for producing illustrations of birds in their natural colors. The attention of fanciers is invited to the work we are doing in this line.

The birds from which our Buff Leghorn supplement was drawn are owned

by L. S. Bache, the well-known breeder of this variety of popular fowls. The cockerel in drawing is the one which won first at New York last year, and the pullet is also a winner. We are pleased in presenting this pretty picture to our readers.

Well Pleased.

I am much pleased that you notified me of my subscription running out. I would not, under any circumstances, lose a copy of your valuable paper, as there is a great deal of information to be had from it, and, again, I don't want to miss one of those supplements. I think they are all right and up to date in every particular. I have been a subscriber now for three years.

H. E. SUDLOW.
Brooklyn, N. Y.

READY IN JUNE.

THE DISEASES OF POULTRY,

BY
D. E. SALMON, D. V. M.

Chief of the U. S. Bureau of Animal Industry, Dean of the Veterinary College of the Columbian University, Honorary Associate of the Royal College of Veterinary Surgeons, Ex-President of the U. S. Veterinary Medical Association, Fellow of the American Association for the Advancement of Science, Chairman of the Committee on Animal Diseases and Animal Foods of the American Public Health Association, etc.

The only modern book on this subject in the English language.
The only illustrated book on poultry diseases.
The only systematic and thorough book.
Every poultry keeper needs it, and will save money by having it.

Read Contents of First Four Chapters.

CHAPTER I. INTRODUCTION. Pages 9 to 22.

The Poultry Industry—Health and Disease—The Organs and Apparatus and their Functions—Common Causes of Disease—Hygienic Requirements—Disinfection—Objects of Medical Treatment.

CHAPTER II. DISEASES OF THE ORGANS OF RESPIRATION. Pages 23 to 62.

Structure and Function—Simple Catarrh—Roup, Contagious Catarrh—Bronchitis—The Gapes, Vermineous Tracheo-Bronchitis, Syngamiosis—Congestion of the Lungs, Pulmonary Congestion—Pneumonia—Mycosis of the Air Passages, Aspergillosis—The Air Sac Mite.

CHAPTER III. DISEASES OF THE ORGANS OF DIGESTION. Pages 63 to 84.

General Remarks Concerning the Digestive Organs—Obstruction of the Beak—Inflammation of the Mucous Membrane of the Mouth, Pip, Catarrhal Stomatitis—Thrush, Aphthæ—Diphtheria—Psorospermiosis—Aspergillus—Croupous Angina—Obstruction of the Pharynx—Catarrh or Inflammation of the Crop—Paralysis of the Crop, Impacted Crop, Obstructed Crop—Abnormal Appetite, Aberration of the Appetite, Catarrh of the Proventriculus, Inflammation of the Stomach, Gastritis.

CHAPTER IV. DISEASES OF THE ORGANS OF DIGESTION. (Continued.) Pages 85 to 105.

Gastro-Intestinal Catarrh, Simple Diarrhea, Gastro-Enteritis, Enteritis—Constipation, Intestinal Obstruction—Toxic Gastro-Enteritis—Bacterial Enteritis—As-thenia, Going Light—Psorospermic Enteritis—Infectious Entero-Hepatitis of Turkeys, Black Head—Parasitic Worms Which Infest the Digestive Apparatus—The Nodular Tæniasis of Fowls.

CHAPTERS V to XII. Contents next month.

Orders received now will be filled with first copies printed.
Price, 50 cents. Clubbed with THE FEATHER one year for 75 cents.

GEORGE E. HOWARD & CO.,
..Publishers..

S. W. Cor. 8th and H Streets N. W., Washington, D. C.

Practical Poultry Raising

FOR THE
EXPERT.....
AND BEGINNER.....

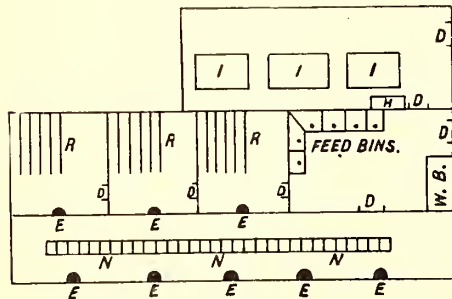
This department is given over freely to our subscribers. Queries will be answered promptly. Write on one side of paper only, and be brief and to the point. Short articles of general interest, records of laying, recipes for feeding, etc., are solicited for publication in these columns.

A Combination House.

Editor The Feather:

Am thinking of constructing a combination duck and chicken house, which I desire to heat in winter. Can you give me plans for same, and also the best method of heating same? Want accommodation for about fifty birds. Another thing: what breed of pigeons make the best squabs, that is, the largest?—W. S. H., Grand Rapids, Mich.

We submit herewith cuts showing a very good plan for such a house as would please our subscriber. These plans may be changed to suit the individual taste, but the idea is a good one and should prove of value to those wanting such a house. Either ducks or chickens may be kept in this house, and the upper floor is just the place for pigeons. The following is taken from our



GROUND PLAN OF COMBINATION HOUSE.

publication "The American Fancier's Poultry Book," and is given in full as published in that book.

This building shows a structure somewhat different in its arrangement from a great many buildings for poultry. It is practically three separate buildings in one. The first is entirely for hens; that is, nothing but nesting-places are in this part. It is 30 feet long by 10 feet wide, and seven feet high, making ample accommodations for from 40 to 60 hens. Opening from the yard permits them the freedom of the yard when they desire to go out into it. The second part of the structure is given entirely to feeding-quarters and roosting-places. The entrance from the roosting-rooms from the laying-quarters is shown in figure of the ground plan, indicated by the letter E. This enables you to divide your flock at night, avoiding too much crowding on the roosts, and the doors leading to each roosting section can be thrown open, and they can either pass through there or go directly from the laying-house through the door at the right end of the laying-quarters. The doors are indicated by letter D, the roosts by R, and in the feeding-quarters the feed-bin and work-bench occupy a part of the room.

The building is 30 feet long by 18

feet wide by 8 feet high. A stairs or ladder leads up to a large room in which pigeons may be kept. Two windows on the front give light to the lower floor, and the mansard cupola on the roof affords light to the upper room. The last building is arranged for incubators, I, and the brooders as well as the heater to cook feed and keep the place warm in cold weather. This part is convenient and necessary and should always occupy a separate part of the poultry-house. This section is just 15 by 18 feet, and is 7 feet high, with one window and two doors, one leading to the feeding-quarters, and the others to the outside.

We think the best plan for heating the house would be with hot water; the pipes to be attached to the heater used for cooking the food.

The pigeon for squab raising is the Homing Pigeon. A Runt crossed with the Homing Pigeon will produce the largest squabs. Our book "Money in Squabs" would prove of much value to you, if you contemplate raising squabs for market.

Old Theories All Bosh.

Mr. H. E. Moss, in *Poultry Culture*, gives the following article on hatching ducks under adverse circumstances:

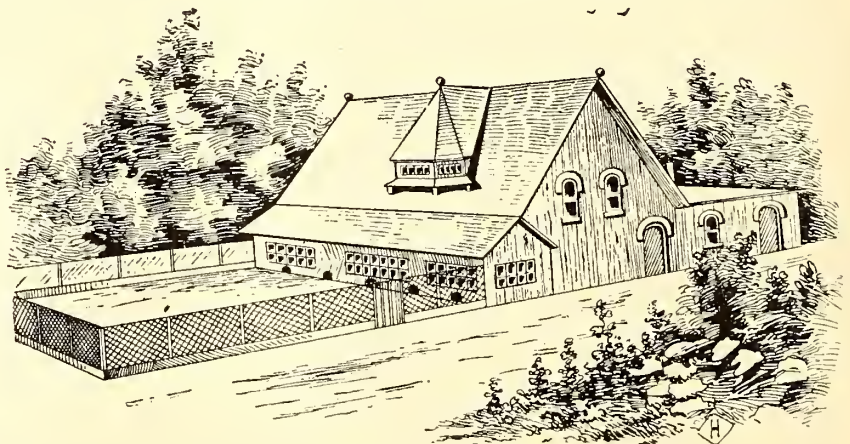
"Your article in February number will no doubt arouse more or less curiosity in the minds of some as to what the writer has succeeded in accomplishing in the task he has undertaken of hatching ducks artificially. Men who claim to be experts at the business all agree that there are certain

well-defined limits within which we must operate to attain success. Unfortunately, I have not been able to keep within the limits in any particular. The incubator cellar in which I am operating was flooded with several inches of water which came up through the cement floor but was removed before my arrival. I began setting machines at once, and when the recent blizzard struck us I had eleven 300-egg machines running; for forty-eight hours the thermometer in the cellar stood at twenty-eight degrees, and for over a week ice froze in vessels sitting aside of them. The walls of the cellar were coated with a heavy frost which made it look like a cold-storage warehouse. The floor is again covered with water in which I have plank laid so as to be able to attend the machines, nor can we do anything to remedy this until the weather permits.

"I took off the first hatch to-day, 248 fertile eggs, 226 ducklings, or ninety-three per cent. I don't wish to toot my horn too loud, but one little blast as a signal will do no harm, and facts are stubborn things, and when I make the assertion that no one, at any time or place, under the most favorable conditions in the height of the season and with the best eggs, has ever equalled this, made with the poorest eggs under the worst possible conditions.

"I state what I believe to be a fact from the knowledge I possess of the work done on the duck farms in this country. Incubator catalogues and writers in many poultry journals tell us that duck eggs are as easy to hatch as chicken eggs. I say the same, they are, when you know how they should be run, but where is the man that has ever before succeeded in proving the assertion? I am here for the express purpose of convincing the duck men of this country that I can do what I claim. They have ridden their old theories to death and never made any progress.

"First they mounted the ventilation horse and soon wore him out, then they took a fresh one called turning and cooling. They found they could not win with this one and tried another called moisture; after riding him some years they discarded him and concluded they could get along better without moisture, but the results proved no better, so the machines were next blamed, and out go the whole lot and a new instalment of some other make are set



A COMBINATION HOUSE.

WORK FOR THE MONTH.

up, results no better, their last resort is the breeding stock. The poor ducks have been doing their level best all the time, but they must be dosed with a new kind of feed to get stronger eggs and here they are just where they started. Before long they will awaken to the possibilities of the duck egg and learn that if they will only give it half a chance, they can not stop it from hatching, and it will hatch in spite of them, and they will learn this before many moons. There will then be some hope for reasonable profits to those engaged in it instead of carrying two thousand breeders through the season to secure about the output of market stock they can handle, they will carry but one-half and secure the same results. I shall be glad to keep your readers advised each month as to our results here, as I know some that are interested. I have no reason to expect much out of the eggs now sitting as they were mostly gathered during the extreme cold weather, many were frozen and probably all chilled, which will affect the results materially of the next three weeks' hatches, but we shall see what we shall get."

A Remedy for the Sparrow Plague.

Editor *The Feather*:

The European sparrow (*Passer domesticus*) is too well known to need any description. Since his introduction to this country some twenty-five years ago he has increased with great rapidity, and in many districts not only outnumbered the native birds by a great majority, but is almost the only bird seen; the other species being driven out partly by the European sparrow itself and also by the persecutions of man. Careful investigation reveals the fact that very few of our States are free from the presence of this bird, and in many States, owing to the depredations and damage to farmers' crops, and the great members of sparrows, they have come to be considered as a veritable plague, just as much as the gypsy moth in Massachusetts or the jack rabbit in California. The question arises in these districts: "What should be done to check the numbers of sparrows?" (for absolute extinction of this bird is impossible). In some places bounties might be paid for them, or legislature might place a premium on their heads. But this in time would amount to a great expense, whilst the variety of places which this bird inhabits would make it difficult to follow him everywhere and destroy him. No, the best way is to use Nature's method for the balance of species. Try and find some bird which preys upon the sparrow and then you have enlisted on your side a tireless and persevering servant.

From observations made for a long period, and in several localities I have concluded that the Great Northern Shrike, or Butcher-bird, is pre-eminently the enemy of the European sparrow. It is a bold and fearless bird, and will follow its prey to within a few feet of a house or busy street to secure it. In this point it is more useful than the sparrow-hawk, which, though a great enemy to the sparrow, will rarely dare to pursue it into a farmyard or near any habitation. It is just in these latter places that the sparrows love to congregate. From these considerations I would urge upon farmers and others who have the good of their country at heart, to give every encouragement to

The last of the spring months. The poultry-yard is now a busy place; the sitting hen and musical chirp of the chick make a pleasant melody for the poultryman to hear. The early-hatched chicks should be pushed with good, wholesome food; they should have a morning mash of bran and cornmeal, scalded and mixed to a crumbly state. Give the growing stock free range during the bright, sunshiny days, and at night feed whole wheat, barley or rye. Cracked corn makes a splendid change for the grain diet, but should be fed sparingly during hot weather. Ground bones and meat once a week will be ample if the chicks are on range.

This is a good month for hatching the smaller breeds, but not so well for Asiatics. The former may be hatched now and fully mature before cold weather sets in. Keep up the warfare against lice; this army of pests is increasing daily, and nothing but continued "battling" will keep them down.

| 1899 | | MAY | | | | | 1899 |
|------|----|-----|----|----|----|----|------|
| Su | Mo | Tu | We | Th | Fr | Sa | |
| | 1 | 2 | 3 | 4 | 5 | 6 | |
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| 21 | 22 | 23 | 24 | 25 | 26 | 27 | |
| 28 | 29 | 30 | 31 | | | | |
| | | | | | | | |

the Great Northern Shrike, and not permit it in any case to be molested nor its nests robbed by thoughtless boys.

It may be well to give a few distinguishing characteristics of this bird for the benefit of those not well acquainted with him. In length he is about ten inches, general color a dusky gray, a black mark along the side of the head from the eye backwards, wings black, most of the quills tipped with white, tail black, the outer feathers mostly white, the next three tipped with white in decreasing extent. At a distance he might be taken for a mocking-bird, though he is a shade larger. They live in pairs and are not gregarious to any extent.

I may add that one farmer who had two pairs of these birds nesting on his land, was entirely free from the ravages of sparrows to which most of his neighbors were subject.—C. GREAVES.

Winter Layers.

Editor *The Feather*:

When hatched in April, May, or the first part of June, the Buff Leghorn can not be beat laying from November to July and August, their molting time. For winter layers they have distanced their rivals, the Barred Rocks, Black Minorcas, White and Brown Leghorns, S. S. Hamburgs, and Houdans, when given the same care. Neighbors have the Buff and Partridge Cochins, but they are not in it for winter eggs. Hereafter nothing will be in my yards but the layers of large white eggs called Buff Leghorns.—CHAS. L. HENEY.

Preserving Eggs.

The North Dakota Experiment Station has just completed some tests of a method of preserving eggs which has proved very successful. In nature, the shell of an egg has a very thin coating of mucilaginous matter on the surface which seems to protect eggs for a considerable time from atmospheric action and prevents the entrance of the germs of decomposition. If this coating be removed immediately after the egg is laid and while it is still warm, the keeping quality of the egg is much reduced, or if those soiled in the nest are washed,

the life of the egg is shortened thereby. The water-glass method of preserving eggs is based upon rendering this protection of the shell more complete. After a number of experiments the North Dakota Station found that a ten-per-cent solution of water glass would preserve eggs very effectually so that at the end of three and a half months eggs that were preserved early in August were perfectly fresh. In most packed eggs after a little time the yolk settles to one side and the egg is then of inferior quality, but in boiling eggs preserved for three and a half months in water glass, the yolk was found to retain its normal position in the egg and its taste is not to be distinguished from fresh, unpacked store eggs. Again, most packed eggs will not beat well for cake-making or frosting, while those preserved in water glass seem to be quite equal to the average fresh eggs of the market for these purposes. Only fresh eggs must be used for preserving. In the experiments referred to none were over four days old.

Water glass is a very cheap product, costing usually not more than fifty cents a gallon, and a gallon would make enough to preserve fifty dozens of eggs, so that the cost of material would only be about one cent per dozen. The method of employing the material is to use pure water that has been thoroughly boiled and then cooled, and to each ten quarts add one quart of water glass. Pack the eggs in a suitable vessel and if wooden kegs or barrels are used they should be thoroughly scalded with boiling water to sweeten and purify them. Pack the eggs in the vessel and pour the solution over them, covering well, and keep them in a cool, dark place, a good, dry cellar being a very suitable place for storage. If the eggs are kept too warm the water glass is deposited and the eggs are not protected. Do not wash the eggs before packing, as by doing so their keeping quality is injured. Use only perfectly fresh eggs, for stale ones can not be preserved and may prove harmful to the others. All packed eggs contain a little gas and when boiled will crack. This may be prevented by making a pin hole in the blunt end of the egg. To do this hold the egg in the

hand, place the point of the pin against the shell and give it a quick, sharp blow, just enough to drive the pin through the shell without further injury to the egg.—*The Kansas City Packer.*

Tuberculosis—Wing Disease.

Editor The Feather:

I have a disease among my Homers I never had before, so probably you can give me a remedy and cause of same, also say if contagious. Some have lumps like a walnut on wing at joint; others both wings stiff, no lumps but unable to fly a particle; others can fly, but affected in one leg, and consequently lame. Most of them in good order, only a few not; some eat well. I was told to paint joints with iodine, which I have done, but see no improvement. If you can do me any good, it will be appreciated.—C. A. M., Lancaster, Pa.

The symptoms are those of tuberculosis. It often affects the joints and bones, when it is revealed by lameness, swellings of the joints and deformities of the bones. Occasionally ulcers form, in the pus of which many bacilli are found. The disease is strictly contagious, and every precaution should be taken to suppress it and keep it from spreading.

In an article on tuberculosis, published in THE FEATHER, Dr. D. E. Salmon says: "The eradication of tuberculosis in birds from an infected premises can only be attempted with a fair prospect of success when all the birds are sacrificed. Any individuals that are preserved are liable to have ulcerations of the intestines, from which the bacilli are constantly distributed. There should, consequently, be no attempt to save any birds from an infected flock."

"When the birds are all killed and disposed of by burning or deeply burying, the premises should be carefully disinfected. The manure should be carefully scraped and swept together and saturated with a five-per-cent solution of carbolic acid or mixed with lime. The floors and woodwork of the houses should be washed with boiling water or with a hot solution of carbolic acid. The feeding-troughs, drinking-vessels, and nests should be treated in the same manner. Any yards used for penning birds should be sprinkled with the carbolic acid solution."

"After the cleaning and disinfection is accomplished the premises should be open to the sun and air for a month, if possible, before new birds are introduced. It is then a good plan to cover the walls and roosts with lime-wash, to which four ounces of crude carbolic acid to the gallon has been added, and ventilate a few days longer before the houses are used. Those who scrupulously enforce these measures may be reasonably certain that the contagion will be destroyed and that the new flock may be safely introduced."

Soft or Swelled Crop.

Editor The Feather:

Would like to know through the columns of your paper the cause of my chickens getting their crops full of water. I keep Light Brahmas, and while feeding one morning, noted that one fine large hen would not eat. I also noticed that her crop was full and baggy, and upon picking her up I found it to be full of water or wind. I took my knife and made an incision, when she threw up about a tin-full of black water which had a bad odor. I never had a fowl like this before; what is the cause of it?—M. B. B., Quarryville, Pa.

This is known as the soft, or swelled crop, and if taken in hand promptly it is not necessarily fatal. It is caused by excessive thirst, or some obstruction in the outlet from the crop to the digestive organs. You did right in emptying the crop. Put the affected bird alone, in a dry place, and feed it sparingly of soft

cooked food, and allow it to drink moderately after eating; the drinking water should be diluted slightly with nitric acid, but do not leave the drinking-vessel in her coop. A little stimulating food should be given her.

Have Paid Well.

Editor The Feather:

My attention has frequently been called to the difference in price of eggs as given in statistics from various sources and the prices I have been able to command. Believing that many failures in the poultry industry are made by estimating on a wrong basis, I submit a few facts gleaned from my records during the last three years.

In this article I do not refer to eggs sold for setting purposes. Probably those who are situated near large towns or cities can secure private customers and in this way command high prices for eggs, but comparatively few have this advantage. Many, like myself, have to be content with market prices. Twelve miles from a town of any size and nine miles from a railroad station, frequent delivery is impracticable.

| Average price for | 1896 | 1897 | 1898 |
|-------------------|------|------|------|
| January, | 25c | 20c | 17½c |
| February, | 17½ | 16 | 15 |
| March, | 17½ | 12 | 11½ |
| April, | 12 | 12 | 9 |
| May, | 12½ | 12 | 10 |
| June, | 13 | 12½ | 11 |
| July, | 13 | 13 | 12 |
| August, | 14 | 13 | 13 |
| September, | 15 | 14 | 17 |
| October, | 21 | 20 | 18 |
| November, | 23 | 25 | 20 |
| December, | 25 | 22½ | 25 |
| Ave. for year, | 17 | 17 | 15 |

In comparison, I have before me a year's record of a poultry writer that averages 26¾c for year. I often see such records and I suppose they get such prices, but I can not. I also notice

in glancing over record book that the hen that lays during August, September, and October is laying higher-priced eggs than during February and March.

The poultryman must study economy in feed to make a profit at such prices. Every one must know his own business and run it. If we buy every egg food we are told is "absolutely essential," every lice killer that is the "only exterminator of lice," every drinking-fountain that is the "sure preventive of disease," everything in the line of cut bone, meat meal, grit, etc., that is on the market instead of utilizing the facilities within our reach to provide the essentials of egg production, the balance will be on the wrong side of the page at the end of the year. I often find myself feeling discouraged with the low price I am obliged to take for eggs, but at the yearly settlement I am always satisfied that for time and money invested, my hens have paid far better than anything else on the farm.—JENNIE MANLEY CHUBBUCK.

The Sherwood.

Editor The Feather:

We are much interested in the Sherwood, which seems to be just the all-purpose fowl we have long tried to find. As you are aware of the climatic difference of Kansas and the East, our dry electrical atmosphere often interferes with the hatching of eggs. After thirty years' experience here with many different breeds, I can say I have never found any eggs to hatch so well and such strong, active, quickly-feathering chicks as the Sherwood.

I first received a trio of Sherwoods on March 9th, and during that breeding season they laid 206 perfect eggs; I set of them at home seventy-six and hatched seventy-one fine chicks, three fertile eggs being broken in the nests. Our exhibits of Sherwoods have attracted more attention than any other breed shown.

There has long been a demand for a

WHITE WYANDOTTES ONLY.

40 pens....

Now is the time for

EGGS

\$3 for Hens', and

\$2 for Pullets' Eggs.

THE HOME OF THE

WHITE WYANDOTTE

Willowcrest Poultry Yards, GOSHEN, N. Y.

J. E. WHITE, Manager.



white fowl and I think every breed with white plumage has been tried, all proving total or partial failures. There are now at our exhibitions and fairs shown each year less white birds, there being now raised only a few White Leghorns and White Plymouth Rocks excepting as experiments and there are less of them all the time, the Leghorns being too small and giving smaller eggs than the market demands and the White Plymouth Rocks do not promise to be suited to the climate so well, if indeed they are not lacking in hardiness generally.—M. E. WHARTON.

Feather-Eating.

Editor The Feather:

Would you kindly advise me in your next issue of THE FEATHER, the cause of chickens picking off and eating the feathers of each other, and the remedy therefor?—L. F., Reading, Pa.

This vice is found among all breeds of poultry, and if not taken in hand it will spread through a whole flock. It invariably appears in hens. It may be traced to idleness, thirst, and scarcity of animal food. Keep cool, fresh water always within reach of the birds; give as much exercise as possible, and feed two or three times a week fresh ground meat, ground bones, or meat meal in mash.

Egg-Eating.

Editor The Feather:

Will you kindly let me know in next issue of THE FEATHER, what to do for a pen of fowls that eat their eggs? They are valuable birds, so I do not want to kill them.—E. M. F., Toronto, Canada.

This vice may be remedied by placing nests in dark corners; raising the nests from the floor so that the fowls can not reach the eggs; making the nests so low at back that the fowls can not stand up in nest, and can only enter from the front. Feed animal food, ground meat or ground bones, and make the hens scratch for a living. The egg-eating habit, will, if not taken in hand promptly, extend through the entire flock.

Rheumatism—Sore Feet.

Editor The Feather:

I have a cock that has something wrong with his legs and feet. When he picks them up he seems to be afraid to put them down again. The best explanation I can give, he acts like a horse that has the spring-balt. Please advise me whether there is any cure for it.—F. C., Plymouth, Pa.

The bird evidently is suffering from rheumatism, or his feet or legs have been bruised. Place the bird's feet and shanks in warm water, the water to be so you can stand it with your hand, and to every pint of the water add one teaspoonful of baking soda. Wipe his feet and shanks perfectly dry, and keep in a warm place for a few days. Give him a little stimulating food. Examine his feet and shanks for bruises or sores.

Space for Pigeons.

Editor The Feather:

Will you please let me know how much space a pair of pigeons need, and how many can be raised in a loft 8x12 feet? In other words, how many old birds can I keep and breed in that loft? Please let me know through your paper.—J. K., New Orleans, La.

Your loft will accommodate nicely fifteen pairs of mated birds. They should be allowed freedom in flight, or else there should be an aviary attached to the loft.

Very Complimentary.

Editor The Feather:

My FEATHER has come to hand with beautiful colored plate of White Wyandottes.

It is really a beauty and I must congratulate you on the excellence of your paper, and your business enterprise in favoring your subscribers with these expensive colored plates, so true to life. My business is White Wyandottes exclusively, as I consider them the best general-purpose fowl for everyone—farmer, as well as professional poultryman. The picture is nicely framed and hangs in my office. Enclosed you will find my advertisement which please insert in THE FEATHER one year. I think THE FEATHER the best known and most valuable advertising medium in America.

Yours very respectfully,
THEODORE HEWKE.
May's Landing, N. J.

Rupture of the Oviduct.

Editor The Feather:

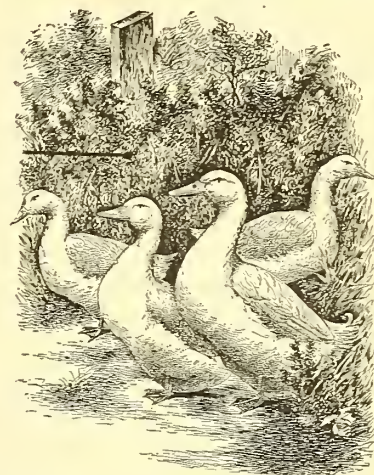
I have a S. C. Brown Leghorn hen, raised from eggs bought of Mr. James Forsyth, that I particularly wanted as a breeder for cockerels, but she has not laid an egg since the latter part of January. I know she is too fat: goes on the nest daily, but does not lay. The fluffy part is very large and hard: have omitted her daily ration for two weeks, and only give her oats and wheat to scratch for. Of course she has plenty of green food. I don't know whether you could call her egg-bound, as she don't seem to suffer any inconvenience, only when on the roost at night; at that time she breathes with some difficulty, having her mouth open, as if in a gasping condition.

Previous to omitting her daily ration I fed for the morning meal a mash consisting of beef scraps, stale bread, boiled potatoes, and cabbage; otherwise table scraps scalded and thickened with wheat bran. Night food, wheat and oats with very little corn mixed. The other hens with her lay right along in splendid condition, but this particular hen did not seem to convert her food in the proper channels for eggs, but rather laid it on as fat. If you could tell me of any better remedy for improving her condition for eggs than I am doing, I would be greatly obliged, as I would like to set one hen with her eggs any how, before the season is too far advanced.—J. A. D., Navy Yard, Portsmouth, Va.

The bird is suffering from a rupture or abscess of the oviduct rather than being egg-bound. It is hardly possible that any remedy could be given to effect a cure. It is a serious affair, and unless the hen is very valuable it would hardly be worth the while to treat her ailment. Lewis Wright in his "Book of Poultry," says: "We have known the passage enclosing the egg to appear externally, have seen a rupture in it take place, and the egg pass through it. In case of such an accident—not necessarily fatal—egg production must be totally arrested."

Royal Blue Line Poultry Farm.

THEO. P. GREEN, Proprietor,
WOODBURY, NEW JERSEY.



IMPERIAL PEKIN DUCKS

The best stock in America. Large birds, snow white, pure yellow bills and legs. Eggs for hatching, by the setting, per 100, and per 1,000, prices low for stock. Breeding birds for sale.

BUFF COCHINS....

These are grand birds, pure buff color, and large size, excellent shape and style. Eggs for hatching, \$2 per 13. Birds for sale.

WHITE WYANDOTTES

This strain of birds is made from four noted strains—the best stock money could buy. Eggs for hatching, \$1.50 per 13. This is low for the fine character of stock.

Royal Blue Line Lofts,

Contain the world's greatest record Homers, with proven records from 1,183 miles, and the best short and long-distance Homers in the world. Stock always for sale.

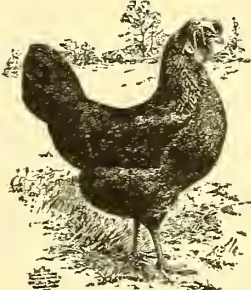
Send for my illustrated catalogue of Poultry and Pigeons. I can please you, and my prices are low for the quality I breed.

THEO. P. GREEN,
WOODBURY, NEW JERSEY.

LOOK AT THE LIST

...OF...

FIRST PRIZE WINNERS



AT the head of my matings for 1899. My catalogue of matings tells you all about it. Send for one and be convinced that the strongest matings

Barred Plymouth Rocks,
Brown Leghorns,

....Are in these yards.

16 First Prize Winnings
at New York and Boston
now in the yards.

GROVE HILL POULTRY YARDS,

A. C. SMITH, Superintendent,
W. E. BRIGHT, Prop.
Box 411, Waltham, Mass.

EGGS: \$3 per 13;
\$10 per 50.

These from the same matings
I use myself. None other
matings made.

ed. Give three or four pills containing one grain of calomel, one-twelfth of a grain of tartar emetic, and one-quarter of a grain of opium, every four hours; the first pill having the calomel and opium doubled with advantage. Put the bird on soft, unstimulating diet."

Four Queries.

Editor The Feather:

Will you kindly answer the following questions: 1. Is it necessary for a cock to be with the hens to fertilize the eggs, after the cock has been with them during the fall and winter? 2. Is it not better to have one cock to about ten or twelve hens? I was arguing that it required a cock with the hens to bring out good, fertile eggs and strong chicks. 3. Can a hen lay eggs without having any connection with a rooster at all? 4. Is there any way in looking at the egg to tell which will be a cock or hen?—M. A. L., Folcroft, Pa.

1. Yes. 2. Yes. 3. Yes. 4. No. Your argument was good.

Raising Young Chickens.

During the next few weeks many little chicks will make their first appearance in this world, and, no doubt, many of them will be sorry for it before the end of the year. The appearance of the little chicks means more, but not unpleasant work for us poultry women, but those who are interested in poultry, especially thoroughbred, and put their whole heart in the work surely enjoy the hatching season. We want our little chicks to start a rapid growth from the time they leave the shell and keep them growing, but in order to do this they must have the proper feed, and be kept free from the worse enemy there is to poultry—lice. We all know a little lousy chick will not grow fast, if it lives to grow at all, and that lice kill more of them than anything else. It is the best plan not to wait for the chicks to hatch before you commence fighting the little pest, but begin as soon as you put the eggs under Biddie, by dusting her with insect powder and do so several times while she is sitting, and after she hatches, while the little chicks are still in the nest, dust her and the little chicks well. I have heard often times that a little chick free from lice would not have the gapes, but I have had them to do so, and not a louse could be found on them. The most successful way I treat the gapes is with a feather. I get a small but stout feather, strip it down on both sides to within about two inches from the end. I then notch it with the scissors, dip it lightly in coal oil and insert it in the windpipe, and give it a twist or two. The oil will loosen the worm from the windpipe and make the chick sneeze, and that throws the worm out. I have had them to throw the worms all over my hand before I put them down, after operating on them. The oil does not hurt the chick at all, and this is the only way I ever treat for gapes at all now, as I am always successful with it. Last year I only had a very few chicks to have the gapes. While I am on the "cure" subject, I will give a "sure cure" recipe for roup (I have used it and know it will cure). Get fifteen cents worth of boracic acid and mix with water to about the thickness of cream; give a teaspoonful every third day, and grease the beaks with vaseline. I never had a chicken to have the roup as long as I have had poultry, but I had several turkeys to have it about two years ago, and I cured them all but one, which was too far gone before I commenced using the above.—*Tri-State Farmer and Gardener.*

Incubator Chickens.

I use incubators for hatching the greater part of my chicks, but do not use brooders. I generally manage to have several hens commence work at the same time as my incubators, and then give all the chicks to the hens. It is very essential that the chicks should have exercise in order to be healthy and thrifty. Chicks confined to brooders contract leg weakness and bowel trouble more from the want of exercise than from any other cause. Sunshine, pure air and unlimited range, on the contrary, bring health and vigorous growth to young stock. I give each hen thirty chicks taken from the nest and incubator. As soon as they can stand straight up and run the hen and brood are placed in a box, the bottom of which is covered with alfalfa siftings to make it soft. This must be kept dry. They are kept in the box in the incubator cellar from three to six days, according to the state of the weather.

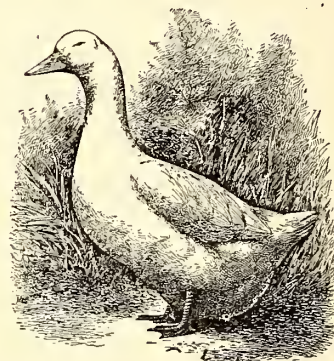
If bright and warm they are taken to the range coops on the third day. Later in the season these coops are placed here and there in dry places in orchard and vineyards. Coops are made of lime barrels or boxes of about the same size, with a board roof over them to keep out the rain. The doors are made of a frame, covered with fly netting wire to confine the hens at night and keep out all enemies. A lath run two and a half by two and a half feet is placed in front of each coop to confine the hen and let the chicks have free range. A grit-box and a drinking-fountain are placed in one corner of each lath run. The first six days the grit-boxes are filled with coarse sand, pounded charcoal, rolled oats and wheat bran, equal parts.

Later on, broken chinaware and dishes of all kinds, pounded fine, take the place of the sand. Bread is made from equal parts of cornmeal, rolled oats, wheat bran and infertile eggs taken from the incubators and hens. I bake it brown so that it crumbles well. Then twice a week they are supplied all the green food they want. The land

about these coops is planted to sweet corn and alfalfa. The hens and broods are turned loose during the day to roam the fields and help destroy the injurious insects, and to develop the broods into good, healthy, vigorous stock, that will go into winter quarters and pay well for their raising in fresh eggs at the time when they bring long prices.—*Horseman and Stockman.*

The secret of success in modern business is judicious advertising.

ATLANTIC FARM.



Hallock's Pekins

Are among the first on the market, are sought for by the trade, command the highest prices and give the best of satisfaction in every way. And in the show-room it's the same story. The proof is the long string of blue ribbons they've won at New York, Boston, Washington, D. C., and other shows. Breeders are now ready for delivery at reasonable prices. A free booklet gives the particulars. Address,

A. J. HALLOCK,

Box F, Speonk, L. I., N. Y.

J. W. FISKE, Passaic, N. J.,

A breeder for 20 years...

S. G. White Leghorns,

S. G. Brown Leghorns, H. W. Smith's Strain.

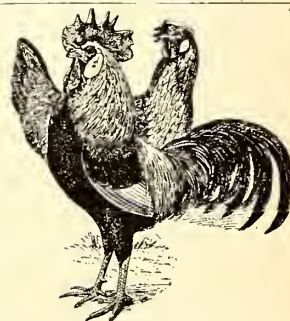
Eggs, \$1.50 per 13.

Silver Duckwing Leghorns, Always... ..Winners.

Eggs, \$3 per 13.

Barred Plymouth Rock, Welles' strain, \$2 per 13.

STOCK FOR SALE.



Birds with a pedigree



Are the most valuable. The Eureka Nest Box shows which hens lay and points out the egg that each hen lays. No buying "a pig in a poke" when purchasing one of these valuable inventions, as I positively guarantee satisfaction.

Money back, if you want it.

A. J. SILBERSTEIN,
Hartnest Park, Box 10, Framingham, Mass.
To avoid mistake, address exactly as above.

The Buff Orpington.

A breed of fowls, like a strain of horses, or a brand of wine, must have some striking point or points characteristic of no other breed in order to become popular with the poultry fraternity. If it does not have something to enhance its value it is quickly relegated to the shelf to make room for the next aspirant for popularity, and such has been the fate of a score or more breeds in the past.

When England does anything she never does it by halves, and she certainly has given us the whole thing when she presented us with the latest thing out in fancy poultry. It is not very flattering to home industry to think that we must cross the water to get our most valuable breeds, but, be that as it may, our English brothers have in this instance presented us with a fine breed and deserve the credit.

The breed we have reference to is the Buff Orpington. In form it is a symmetrical, upstanding bird, with a graceful carriage. The plumage is a soft, even buff, with a fine undercolor. The legs are free from feathers, white, strong and of medium length, four toes upon each foot, white toenails. The face is red, comb single, not large, and less liable to freeze than the Mediterranean breeds. The eye is brown. The breast is broad, deep, and full, with long, straight breast-bone. The skin is thin and fine in texture. The meat is very juicy and fine grained, and pronounced by epicures to be far superior to all other breeds for table use. The standard weight is six to eight pounds for the hen and eight to ten pounds for the cock. The chicks are hardy and mature early. The object in forming this breed was to combine prolific egg production with superior flesh for the table, hardness of constitution, rapid growth, and fine form and plumage. Possibly when you read the description and come to the white legs you will say, "I don't want any white-legged chickens around me," but the old adage which runs something like this,

"Vice is a monster of such frightful mien,
That to be hated needs but to be seen;
But seen too oft, familiar with its face,
We first endure, then pity, then embrace."

covers this case nicely, and this makes the Orpington hold a unique place in poultrydom in this country. There is a widespread prejudice against white-legged fowls here, a very unreasonable one at that. It has prevented a great many breeds from becoming popular, but the Orpington has overcome this with all who have come in contact with it. It has overcome it because you can not keep a good thing down, and that they are good the following will show:

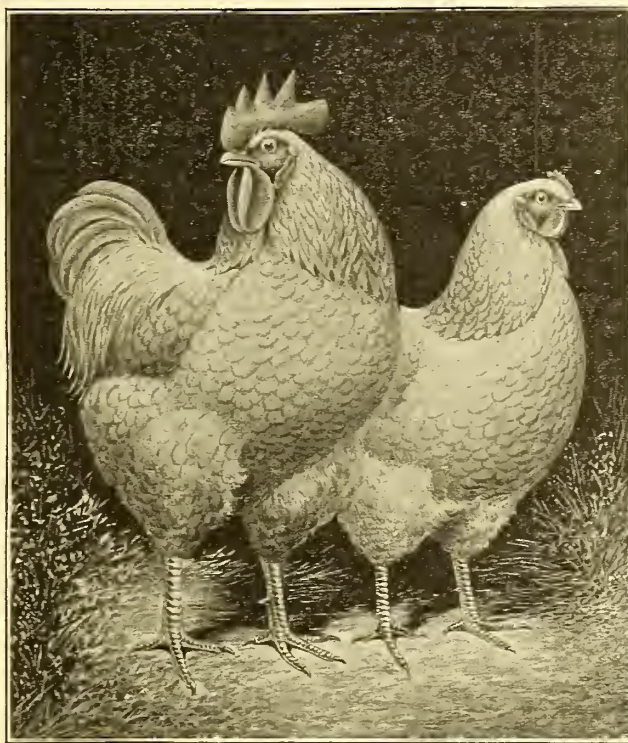
I imported at one time four pullets and a cockerel. These fowls were shipped from the interior of England, and, of course, crossed the Atlantic and were again shipped by rail a distance of nearly one hundred miles, arriving here on the 8th day of March, 1898, and on

the day of their arrival one of the pullets laid, and in the remaining twenty-three days of March the four pullets laid fifty-seven eggs. The following month the egg total footed up seventy-seven and in May these same fowls rolled up the grand total of eighty-two eggs.

This is a remarkable showing under the circumstances, but it is characteristic of this breed; and we venture to predict that they are destined to become popular with both farmer and fancier in a short time.—CHAS. E. VASS.

The American Black Minorca Club.

During the past year there has been an unfortunate controversy going on among the officers of this club, which has greatly interfered with its progress as an organization. This controversy was between Mr. George H. Northup, president of the club, on one hand, and



BUFF ORPINGTONS.

Mr. J. H. Doane on the other hand. It culminated in the unlawful suspension of Mr. Northup. THE FEATHER was disinterested in the matter, and would not burden its readers with the voluminous correspondence given to the press. Such things are not for the benefit of the poultry interests, nor the club's welfare.

At the last meeting of the club, held in Madison Square Garden, New York, February 2, 1899, the whole subject was dropped, and a full list of new officers was elected. The action of the Board of Directors in suspending Mr. Northup was rescinded, and he was declared a member in good standing, with full rights and privileges of the club.

By request we republish from the *Reliable Poultry Journal* the following extracts from the report of that meeting:

At this point Mr. Northup obtained the floor and moved that the old board of directors be called on for a full report of its acts during the past year, his

object being to call up for discussion, and for such action as the meeting might see fit to take thereon, all matters pertaining to him as president of the association and in any way affecting his reputation as a poultryman. Motion seconded. Mr. C. F. Sutherland moved that Mr. Northup's motion be laid on the table. This motion was adopted.

Mr. Northup: "I have been accused by members of the board of doing business not morally straight. It is wrong to leave anything of this kind covered up. If there is one person present who has aught against me, I demand that he show it up."

Mr. Sutherland: "I believe that the board, in adopting my motion, has taken the wise course. I came here a warm friend of Mr. Northup. I have for him the highest regard, but I believe there is nothing to be gained by talking this matter over further at this time."

Mr. Doane: "I agree with Mr. Sutherland, and ask Mr. Northup to withdraw his request. I am willing, if he is, to let by-gones be by-gones. Let us work together hereafter for the best interests of the club."

Mr. Northup: "I want to give every man a chance to repeat here any charges he has against me, and I demand the right to refute those charges. They must not be brought up later. I am here, prepared with documentary evidence to refute any charge that can be brought against me. I have here with me every order and a copy of every letter I have written or received during the past four years. If there are any charges against me, I demand that they be presented now for settlement, or that you forever hold your peace. I challenge any man, present or not present, to name any man with whom I have dealt unfairly. I am prepared to meet all charges and all comers."

Mr. McGrew, who still occupied the chair (by request of Dr. Andruss, who was suffering from a severe cold), remarked that as there was nothing before the meeting, the discussion was

out of order. Mr. Rockwell moved that the board of directors rescind its action suspending Mr. Northup. Motion seconded by Mr. Reynaud.

Chairman McGrew: "Mr. Northup, according to the resolution of the committee and the action of this meeting, is recognized as a member of the club in good standing, with all the rights and privileges of membership and we have proceeded on that basis. I rule, therefore, that this discussion and the motion are out of order."

Mr. Garlick: "Mr. Northup is a member of the club in good standing and all this matter should be dropped."

Mr. Reynaud: "Mr. Rockwell's motion is certainly in order. I seconded it and believe it should be adopted." Mr. Rockwell's motion was thereupon put to a vote and carried unanimously. On motion of Mr. Reynaud, which met with a second, it was voted to expunge from the minute, all unpleasantness. After appointing a committee, consisting of

Messrs. Gamewell, Billard and McGrew to appoint honorary vice-presidents the meeting adjourned.

The above is published that our readers will understand the matter as it is, as well as to do full justice to Mr. Northup, who was, in our opinion, placed in an embarrassing position by the action of the late Board of Directors.

The officers elected at the last meeting were: C. J. Andruss, president; A. H. Gesler, vice-president; Rowland Story, secretary-treasurer; F. J. Billard, R. F. Palmer, J. W. Garlick, and J. Yelton, were elected the Board of Directors.

Poultry Raising on the Farm.

We believe the demand for fresh eggs and toothsome chickens was never greater than now, and poultry raising on farms should be a main source of supply.

During the past four years we have supplied private customers with both eggs and chickens from our farm at prices which, considerably in advance of the market, were cheerfully paid for eggs guaranteed to be daily gathered, and delivered in less than seven days after laid; and for chicks properly fattened and neatly dressed and packed. From March 1st to October 1st we received fifteen cents per dozen for eggs. From October 1st to March 1st twenty-five cents. For chickens we have received from ten to twenty-five cents per pound. Hens, ten to fourteen cents.

From a flock of 100 Plymouth Rock hens we have netted something more than \$100 yearly, besides the eggs and chickens freely used in our large family. During the summer of 1898, if we had had them we could easily have sold ten dozen eggs daily at price named. Neighbors having a still more aristocratic clientage, have readily disposed of their eggs at twenty and twenty-five cents per dozen during the months when market price ranged from six to nine cents. I should mention that a golf club in our vicinity has brought a class of epicures among us who chiefly create this large demand for fancy products.

Perhaps I can make this short article most helpful by summarizing some conclusions arrived at during eighteen years of experience in raising poultry on a farm located in the vicinity of Wheaton, Illinois, twenty-five miles west of Chicago.

1. Poultry raising on the farm is indispensable as a means of furnishing eggs and a large percentage of fresh meat for the farmer's table; and for market purposes can be made to realize greater profits than when conducted as a separate business. Raising the feed, saving of scattered feed which fowls will pick up if allowed to run with stock and which would otherwise be wasted, and the health and vigor maintained in a flock allowed the wide range afforded by a farm, are unquestionable advantages.

2. The poultry business, on the farm or elsewhere, is pre-eminently one of details: and can not be neglected in the smallest of them without consequent loss. Because of this required attention to minutia, women are often more successful poultry raisers than men.

3. It is folly to keep more fowls or to undertake to raise a larger number of chicks than the owner, or a responsible member of his family, can personally attend to.

4. It is most satisfactory to keep but one variety of fowls. They look better

in the flock, make a more uniform and handsome appearance when prepared for market, and customers are better pleased with a basket of eggs well matched in size, shape, and color. Selections should be made according to whether eggs or meat or both are wanted. Personal fancy may also be consulted. For a general-purpose fowl we believe the Plymouth Rock is unsurpassed.

5. An intelligent study of the poultry business, details in regard to buildings, care, feed, diseases, preparing for market, and kindred subjects, such as may be found in a progressive poultry journal, is requisite to success.

6. It is most profitable to sell to regular customers; gaining and holding their confidence by quality and freshness of poultry products and attractiveness of packages delivered.

7. The best time to sell hens is in June or July. Plymouth Rocks at two years of age, a good selling age, will often weigh six, eight, and even ten pounds, and from select customers will bring ten to fourteen cents per pound. Early chickens are harder to raise than late ones; they are also more profitable.

8. We have realized greater profits from the sale of eggs than from that of chickens, but believe a combination of the two is desirable.

9. The exercise of intelligence, industry, common sense, patience, perseverance, and eternal vigilance will insure successful poultry raising on the farm.—*Farm, Field and Fireside.*

Business Fowls.

In the human family we find occasionally fine physical specimens of the species that are of no practical use in the world, and the same rule will apply in some degree to all animal life; and I have concluded that it depends largely on the breeder whether a domestic animal or fowl is simply a thing of beauty or built for business. If a fancier's aim is wholly with a view to have a fowl of handsome feather and comely appearance, or in other words, a winner at the show, it is not surprising that such a bird may not be a success as a layer of eggs. My experience teaches me that if a person wants money-making business hens, he must keep that point in

TOO LATE FOR CLASSIFICATION

SINGLE COMB BLACK MINORCAS—(North-up), B. P. Rocks (Thompson and Conger). My birds are grand in shape, color, and up in weight, not one bird in my yards scoring less than 92, and as high as 95. Twenty years breeding thoroughbred poultry. Eggs, \$2 per 15. SID. SMITH, South Whitley, Indiana.

WHITE CRESTED BLACK POLISH, Black Minorcas, White Plymouth Rocks, S. C. Brown Leghorns. Eggs for hatching, \$1 per 15. Stock for sale. E. S. LAMBERSON, Frankfort, N. Y.

LIGHT BRAHMAS.—Bred from Cost's, and Williams' stock. Fowls and eggs for sale. Eggs, \$1 per 15. Satisfaction guaranteed. BERNARD BROCKMORTON, Snickersville, Va.

DREW, Avon, Mass. **PRO BEACH ISLAND** POULTRY FARM, has for sale beautiful White and Buff Cochins. Exhibition birds, from \$5 to \$10 each. No cheap birds to sell.

WHITE MINORCA EGGS from hardy, vigorous birds, selling this season to advertise stock at \$1 per 13. E. L. L. MANSFIELD, Swampscott, Mass.

EGGS FOR HATCHING, 13 for \$1, from Rose and Single Comb White, Single Comb Brown, and Buff Leghorns, S. S. Hamburgs, and White Crested Black Polish. Fowls for sale. HOMER J. BROWN, Hartford, N. Y.

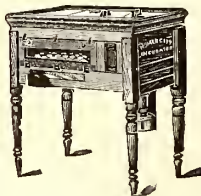
SINGLE COMB BROWN LEGHORNS, C. L. Corbett's strain, bred from the prize winners at the greatest American shows. Eggs, \$2 per setting. WILLIAM CORBETT, Box 554, Watkins, N. Y.

EGGS! Single Comb Brown Leghorns. I purchased in September, '97, the entire stock of show birds of Mr. Geo. H. Gallinger, of Fabius, N. Y., and mated and bred same for the season of '97 and '98 with good results. Will sell choice select d eggs from my pens of carefully-mated birds from above named stock, \$1 per setting of 15 eggs; \$4 per 100. J. S. STEWART, 1335 Lincoln Ave., Tyrone, Pa.

HALL'S Black AND White Minorcas

Are not behind in utility or fancy points, and Hall will use patrons honorably. Eggs, \$2 per 13.

LEVI HALL,
Deckertown, N. J.



...THOUSANDS OF SATISFIED CUSTOMERS...

Are our best advertisements. Our 1899 improvements place the

Homer City Incubator and Brooder

At the head. Send for catalogue and price list.

BLAIRSVILLE MFG. CO., Blairsville, Pa.

The Poultry & Farm Supply Co., Boston, Mass., Sole New Eng. Agts.



CRESCENT FARM

Box F, KENT, OHIO, U. S. A.

BUFF COCHINS

Winners at MADISON SQUARE GARDEN, NEW YORK, BUFFALO, CLEVELAND and ELMIRA.

WHITE LEGHORNS

Which won nearly everything Competed for at Buffalo and Cleveland Last season.

WE can furnish some very choice young stock bred from the above winners.

Send for Catalogue.

Address E. T. BLOOD, Mangr.

REV. HENRY M. LADD, Prop.

view, culling closely all drones, loafers, and doubtful characters, and breed only those that are most prolific in money-making qualities, without so much regard for fine feathers. I want eggs and plump, meaty hens, for in them there is money, and while these requirements are filled, it matters not whether they are pure blood, or of any fancy strain. Disappointment awaits the poultryman who buys eggs for hatching on the recommendation of others.

My hens may do well for me under the diet and peculiar conditions they are accustomed to, but transfer them to another climate, different feed, surroundings changed, and they, perhaps, will prove very unsatisfactory, and it is for this reason that I in some degree account for the oft-repeated accusation of misrepresentation on the part of sellers. Therefore, don't depend too much upon others; read good, sound poultry literature, and be guided by your own good sense and experience.

Raising poultry is a legitimate business, but needs to be studied, built up, and taken care of as any live merchant or manufacturer takes care of his affairs, and keeps up with the times. It is by no means simply chance or luck, but hard work, that brings success, and he who thinks otherwise had better look elsewhere for a "soft snap."

That there is money in the business, we have ample proof. There are some failures, the same as in every other line of business; but this is no reason why the hen should retire from business.—*Indiana Farmer.*

Correct Management.

Correct management is everything. Two men, living next to each other, may have the same breed of fowls, and even the same strain; one has grand success with his fowls while the other makes a failure, and yet you visit their places and both of them seem to take good care of their fowls. We believe, and have had it proved to our own satisfaction, that there is such a thing as fussing too much with fowls. We mean well by it, but it is to their detriment. Too much care can not be exercised in taking care of fowls, but then again too much care will kill them. That seems a queer statement to make; it is so, nevertheless. We have seen chickens actually killed from exercising too much care. Possibly we should not say from exercising too much care, but from fussing with them too much.

Exercising care is one thing in raising chickens, and obtaining good results from them after they are raised, and fussing with them all the time, though our motives may be of the best, is a horse of a different color; and we think to distinguish between these two characteristics one of the essentials of a successful fancier. A number of our prominent fanciers do not confine themselves to one particular breed of fowls, but have several varieties, all of which are kept up to the highest standard of excellence. For ourselves, we prefer one or two varieties, and find that we have all that we care to attend to, to bring them up to a high standard of perfection—that something which we are trying to reach, but can never hope to attain.—*Poultry Monthly.*

Grit for Young Chickens.

When the chickens are hatched it will be necessary to provide them with sharp grit. I always leave a little in some corner of the apartment where they are kept. If flint is convenient,

break it into small pieces not larger than wheat. If no flint is available broken china will do admirably, or any kind of hard stone. When chickens can get out they need no kind of grit, but when confined it must be supplied. A piece of flint a stone weight will last a very long time. Very little grit will do, particularly if made of flint, which is both very hard and sharp. Every bit of it is a grinder and does not lose its powers for a considerable time. I see a good deal written about glass for grit. Of course it must be broken into small pieces; but it is said the birds eat too much of it and are sickened. Ground oyster shells are, perhaps, as good grit as any; they serve the double purpose of grit and lime. Lime in some form is an absolute necessity for fowls at all seasons, but particularly in the laying season. The food supply has an amount of lime in it, but never quite enough. Oyster shells supply the lime in the most desirable form. Old mortar will do very well. Every pen of fowls should have some in the corner of their run. When the fowls have a wide run they will usually get all their requirements in their fields, but where kept in enclosed runs it is otherwise.—*Rural Californian.*

Poultry Should Be Dry Picked.

The time will not be long in coming when all poultry shipped to this market will have to be dry picked. Although over half of the chickens arriving here now are scalded, the trade is beginning to be pushed for dry-picked stock. It is a well-known fact that not very long ago undrawn poultry could not be sold for any price on this market, but conditions have changed very perceptibly and to-day conditions are just about reversed. Take for example the case of one prominent commission man in Minneapolis, who about fifteen years ago received a consignment of undrawn poultry from some place in Iowa. The birds that he received were as fine a lot as ever came on the street, but they were unsalable at that time, nevertheless, and he had to go to work and draw every one of them before they could be sold. Eastern markets are setting the pace in this line and at the present time scalded poultry can not be sold in the Boston or New York markets at as good prices as dry picked. Professional poultry dressers are, as a rule, dry picking their poultry, as they wish to take advantage of the premium that is offered for such stock. It is the country dressers who should interest themselves on this subject, as it is they who suffer in the end, unless they educate themselves into dressing the proper way. Any one not understanding how to dry pick, should look into the process carefully

before trying, as a badly dry-picked bird is very unsightly looking and will not sell well. To dry pick chickens properly the work should be done while the chickens are bleeding. Do not wait and let the bodies get cold, as dry picking is much more easily done while the bodies are warm. Be careful not to break and tear the skin.—*Minneapolis Daily Market Record.*

Eggs for Hatching.

Instead of attempting to hatch chicks from eggs laid by all the hens of the flock, the better plan, *Farm and Home* sensibly advises, is to select ten or fifteen of the best hens and mate them with one or two good males. Ten hens with one male is a fair proportion. It will be necessary to have some place where the selected hens can be separated from the other members of the flock, but this expense will be balanced by the reduced number of males. It is entirely unnecessary to keep and maintain males that are of no use, for the hens will lay just as many eggs without their presence as when the males are with them.

The large majority of those who raise chicks by hatching from eggs taken from the general basket (in which all the eggs are placed when collected) can not possibly improve their flocks, as they do not know which hens laid the eggs used for hatching. When a few hens are selected for the purpose of providing the pullets of next year, something will be known of the stock and what to expect of it, but when pullets are raised by using eggs from all manner of hens, much labor will be lost, owing to the large proportion of culls that will be among the whole number hatched.

Some persons have difficulty in procuring a sufficient number of eggs for hatching unless they use eggs from all of the hens, as only a portion of the flock will lay during the cold weather.

This difficulty may be overcome by providing a place for storing the eggs until they are wanted for use. During the very warm days of summer fertile eggs rapidly become decomposed, but in the winter an egg can be kept for a month or six weeks if placed in a box or on a rack and turned three times a week. The eggs should be kept in a cool (not cold) place, as it is important that they do not become frozen, for an egg will lose its vitality from extreme cold. About 40 degrees is not too high. An egg freezes at 10 degrees above zero, which is lower than the temperature required for water. The egg so kept will hatch if six weeks old, and in that time a large number can be secured, while a great portion will, of course, be much fresher near the time of using them.



THE IDEAL LOFT

Home of Punta Gorda, (875 miles) Champion of Washington, D. C. Youngsters and trained birds for sale from such noted strains as Geo. Gitz, Hausenne, Pleteuckx, Wegge, Dr. Wilde, Thos. Brooks, Hussen, Garra-brant, Wagner, and many others. Prices to suit the times. No Catalogue. Correspondence solicited.

E. L. BARCLAY, 812 21st St. N. W., Washington, D. C.

NOW IS THE TIME

To buy good breeding stock for the coming season, and it will be greatly to your interest to write and get our prices before you buy. We have a fine lot of

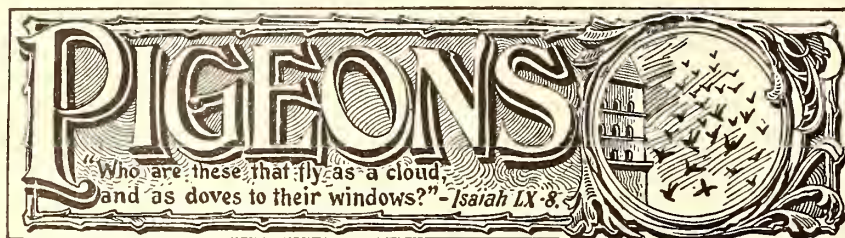
Houdans, W. P. Rocks, W. Wyandottes, and B. P. Rocks,

To select from. Our prices are low for quality of stock. Your money back if you are not satisfied. We ship at lowest rates possible. Can we be of any use to you?

OLD HONESTY POULTRY YARDS,

A. J. BARGAHISER, Prop.

Rockford, Ohio.



CONDUCTED BY J. C. LONG, NEW YORK CITY.

THE IDEAL LOFT.

The Elegant and Well-Arranged Home of Mr. Barclay's Great Birds.



NE of the prettiest and best-arranged lofts for Homing Pigeons is that of Mr. E. L. Barclay, of this city. An illustration of this loft is shown herewith. It is simple in construction, but has every comfort and convenience of an ideal home for Homing Pigeons.

The building is twenty feet long, twelve feet high, and 12 feet wide—fronting east. The loft is divided into two sections six feet by twelve feet; partitions of wire netting, each section consisting of ten double nest-boxes, five boxes high, twelve inches by thirty-six inches by fifteen inches, with swinging doors, running full length. Each nest is supplied with a terra cotta nest-pan. Five shelves of perches of eight perches to each shelf, fifteen inches apart. The windows are so arranged as to slide with wire screens attached so as to ventilate or protect from bad weather. The entrance and exit for birds is so arranged as to enable him to fly his birds from either section desired, simply by swinging a wire-net door which is attached to partition and compels the birds to enter the section of loft from which they were liberated. The entire loft overhead is covered with wire netting nine feet from floor.

The remaining eight by twelve section is devoted to office and feed-room. The rear of office being a cut-off space four feet by eight feet by eight feet and used exclusively for prisoners, the same having an aviary attached to north side of building. The four feet by four feet by eight feet space between roof and top of prisoners' loft is devoted to storage purposes, such as shipping baskets, etc. The prisoners' section is furnished with nest-boxes and pans, as other sections. The office and loft is furnished with Washington gas.

The entire space of floor is cemented, making it perfectly rat-proof. In center of roof he has a galvanized iron twelve-inch ventilator which he finds to be indispensable in a well-arranged loft. He is carrying now about eighty-five birds and had he twice the number would not want for space. In photo you will notice his little performing dog, "Cute," a tiny Scotch terrier, and really wonderful for her intelligence. She is prized very highly by himself as well as by his wife and children.

Mr. Barclay is an enthusiastic breeder of Homers, and takes every pride in having his loft and birds up to date. He extends an invitation to all fanciers to visit his lofts, and assures them a hospitality that is unsurpassed. THE FEATHER is pleased to note his success in the pigeon world, and we will expect some great records from his pets this season.

The Swiss Mondaïne.

Editor The Feather:

Enclosed find my subscription to THE FEATHER and also for a copy of your book "Money in Squabs." Why don't some one advertise White Runts? Can not find them in your paper. Tell us about Swiss Mondaines, the great squab pigeon.—S. T. C., Mansfield, Ohio.

We can not say why we have no advertisers of White Runts, but suppose



THE IDEAL LOFT.

there are none for sale. Below we publish an article on the Swiss Mondaïne, which appeared in Thos. Wright's paper, *The Pigeon Keeper's Guide*, now defunct:

The birds arrived safely, and as we gazed at them in the box, tired and hungry, we at once saw much to admire; and when we got them where they could naturally show their better qualities, we feasted our eyes upon them. A broad-chested bird, as large again as the largest Homer; short on leg; yellow or cream in color; tight in feather; a slight crest; chubby as a ball; smooth leg, no sign of feathers below the hock; pearl eye; no cere whatever; docile and intelligent, it at once commends itself to our eye as the most complete squab bird we have ever seen. It compares favorably for size with the Florentine, but is a better bird, as the Florentines are very apt to run dark in plumage. We can see but little need of using any cross upon it, as it breeds true but not vigorous, and it will improve the variety we may use. The White Roman Runt is a good-bodied bird of about the same

size and proportion as the Swiss Mondaïne, but it is not the inviting specimen of solidity this bird is.

Concerning its more important points of merit, its breeding qualities, our informant says: "I have Homers, and this birds breeds as often, and raises its young as fat as butter balls." Since it has been our good fortune to have these specimens, we have taken pleasure in showing them to many men who are interested in market and fancy pigeons, and in every instance they are at once captivated by their appearance, so solid and substantial. The first cross of Runt and Homer has about the same body as far as size is concerned, but the shortness of leg and broad chest give it an appearance even more inviting than the Runt-Homer. We have owned them long enough to pass an opinion of the activity; and as far as being companionable, we never saw a more agreeable and happy bird in captivity, and this natural virtue adds to its merits as a breeder. We find a lack of vitality in the variety, caused, no doubt, by blood relationship, and so we shall cross the following varieties with them: Runt, Homer, and Dragoon, being careful to select only such birds as will not reduce either beauty, size, or shape. We shall change the color, and this only.

We find also a very strange characteristic in their habits. A tremulous action of the neck and head, resembling somewhat the Scotch Fantail. Another strange thing is, it is impossible for them to fly in a straight line, and if they should gather courage to fly a distance of twenty yards, it would be in the form of a half circle, and if given entire liberty they can not fly away, and have not the least desire to exercise. For years we have given our undivided attention to condensing the most desirable fragments and qualities into one bird for squab raising and Homing Pigeons, and we are sincere in saying this Mondaïne cross, for squab purposes, is so far our choice. The Runt-Homer is a slightly larger bird, but the docility of both Mondaïne and Homer is preferable to the disposition of the Runt, even when toned down by an infusion of Homer blood. The Mondaïne matures somewhat earlier, and we become more attached to its docility than we can possibly to the oft-surprising pugnacious insults of the Runt.

Many people write to us inquiring the prices of Mondaines, our reply is somewhat surprising to them. We are sorry to think that there are breeders of pigeons, as of other creatures, who really seem to feel such rare specimens as the crosses of Mondaines and Runts should not cost more than one or two dollars per pair. The actual cost of stock to produce runs up into the teens, and the time consumed in crossing, and cost of stock to cross with, all must be considered in the actual expense of production. Here, for instance, we buy a good English Runt cock, and pay for him \$8.00. We are unable to take the first Homer hen we see, so we get a good, large one, (one of the largest we can find). We can not possibly procure her for less than \$1.50 or \$2.00, thus there is a cash outlay of \$9 or \$10; then we have fed them, and run risks incidental to establishing such a cross, and when we ask \$8 or \$10 for a pair of their progeny, we

are almost insulted. \$2 or \$3 are enough we are told, and yet one or two pairs of such birds properly handled, would raise the value of any fair stock at least fifty per cent. Mondaines, Swiss or any good variety, can not be introduced and bought for a song.

In conclusion, while this most important subject of the best stock for market purposes is arresting the attention of intelligent breeders, we, as advocates of every step toward its advancement, are willing to advise and criticise until this country can show as perfect specimens as can our cousins in England or on the continent. To do this we must keep at work, even if it takes years to perfect our plans.

Standard of Excellence.

The following standard of excellence has been adopted by the American Turbit Club:

SIZE—Small, very full in breast. Flights short and resting above the tail; the latter short and tightly folded. Carriage erect and graceful.

PEAK—Springing from mane, quite unbroken, and ending in a fine point a little above the head.

HEAD—Large and broad, forehead high and round, full above the wattle and prominent over the eyes, being well bulged so as to present a down-faced appearance.

BEAK—Short and thick, the upper mandible having a downward tendency. The lower mandible should be straight and fit tightly into the upper.

MOUTH—Wide with full cheeks below the eyes, the space between the juncture of the mandibles and the eyes to be well filled out.

EYES—Large and prominent, and situated comparatively near the top of the head, but with good distance to the frontal bulge. Color, bull, *i. e.* dark hazel, large and full. Eye-cere, pale flesh-color.

WATTLE—Fair amount, but in no way raising out of the curve of the profile.

GULLET—As much as possible, quite filling up the hollow in the throat.

FRILL—As much as possible, long in feather and firm in texture turning both ways, and extending from the gullet well down into the breast.

NECK—Broad from front to back.

LEGS—Short, showing but little of the thigh. Color, bright red.

MARKINGS—White with colored wings, each having ten white flight-feathers.

COLOR—Yellow, red, black, blue, as rich and glossy as possible, the bars of Blues to be broad, even, and distinct.

DISQUALIFICATIONS—Trimming.

plucking, coloring, or artificial alteration in any way. Appearance of feathers on the legs or feet. Out of condition from disease, or any decided deformity.

NOTE—It should be observed that ticked Blues, chequery and barred Blacks, Reds, and Yellows must be entered in the classes for standard colors, and are not eligible for the Any Other Color Class.—W. W. KLINE, Sec'y.

Canton Homing Club.

Homer fanciers are springing up in Canton with wonderful regularity as winter declines into summer, resembling the appearance of mushrooms after a warm summer's rain, but unlike the mushroom they are most all determined to stay, thrive, and accumulate whether their future path be strewn with lilacs or thorns. This admirable bird gaining so much popularity in so comparatively short a space of time, makes it seem as if the Homing Pigeon "fer-

er" is contagious throughout this district, enveloping both young and old in its mantle, the younger generation predominating. The breeders of Homing Pigeons exclusively double that of any other variety. Wherever the conqueror of the once famous and extensively-bred Carrier puts in an appearance, interest lacks considerably with the other different species. By this I do not mean to say that the Homer is better and superior to any other variety, for each fancier breeds his favorites, but I do say that the Homer at the present time is the most popular variety in pigeon-dom. After the Homer took on the golden hue of popularity in this city the organizing of a club was immediately gotten under way with twelve members, and will hereafter sail under the name of the "Canton Homing Club." Other clubs are falling in line with bright prospects of having all "flys" interesting for all.—EMIL HUTTER.

...LICE AND MITES...

Mites and Lice on your poultry?
Paint roosts with Lee's Lice Killer.
All done.

Next morning look, and see all lice and mites, lying dead on roost-boards.

Many customers report finding them in piles a half inch deep where each fowl roosted the night before.

Seeing is believing.
Same with hogs.

Paint rubbing-posts or sprinkle floor of sleeping-pen.

All done.
No more lice, mites or fleas.
No handling, no labor.
Cheap.
Only 75 cents for a gallon can.
Want some?

Our catalogue gives a list of principal agents, but if you will write us we will send you the name of the nearest dealer to you who has our goods for sale: possibly a dealer in your next town, or perhaps in your own town.

Lee's Lice Killer makes poultry raising easy and profitable. Lice and mites are at the bottom of most of the poultryman's troubles at all seasons of the year. Young chicks will have no lice if the old fowls are free from vermin.

Every user of Lee's Lice Killer should have a copy of our 64-page book on "Insects" and diseases of poultry and stock. It's free on request. There's a right way and a wrong way for everything. We want to tell you the right way to use our Lice Killer so as to secure the best results at the least expense.

Don't judge the genuine by the imitations. If there were no genuine, there would be no imitations. Adopt new methods. Hours spent in dusting and greasing the poultry can be more profitably utilized elsewhere.

Price of Lee's Lice Killer.

| | |
|------------|--------|
| 1 qt. can, | \$.30 |
| 2 " " | .50 |
| 4 " " | .75 |
| 5 gal. " | 3.00 |

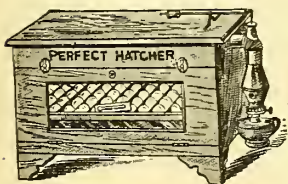
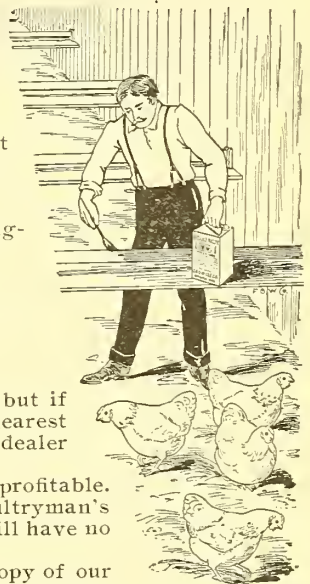
Lee's Insect Powder.

| | |
|------------|--------|
| 1 lb. box, | \$.25 |
| postpaid, | .35 |
| 6 lb. box, | 1.00 |
| 25 " " | 3.00 |

Lee's Tonic Powder.

| | |
|-------------|--------|
| 1 lb. box, | \$.25 |
| postpaid, | .35 |
| 5 boxes for | 1.00 |
| 25 lb. box, | 3.00 |

If no agent near you, write for agent's prices.



This 100-egg Self-Regulating Hatcher only \$6. Outdoor Brooders, 100-chick size, \$5. Hammon-ton Incubators with latest improvements \$12 and up. Nursery Brooders

\$6 and up. Prize Fowls and Eggs, Tes. and Illus. Cir. 2 cts. J. A. CHELTON, Fairmount, Md.

Calamity Howlers

And penny-wise people may not see anything attractive about this ad, but conservative buyers will readily see we are catering to that class of people who are looking for genuine bargains, such as cockerels with score-card 90 to 93½ at \$1 to \$2.50 each. Eggs from scored stock as good, at \$1 per setting; \$5 per 100. W. P. Rocks, S. L. Wyandottes, S. C. B. Leghorns and Black Minorcas. WM. W. BALCH, Prop.,

Cass Valley Poultry Farm, Deford, Mich.

Address Nearest Office as Below:

GEO. H. LEE CO.,

Omaha, Nebraska,

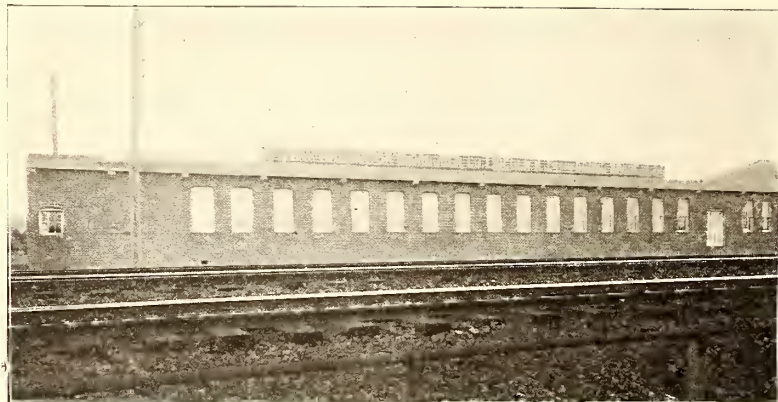
or 68 Murray Street, New York.

THE BUSINESS WORLD.

As Viewed From the Columns of The Feather.

THE STAR INCUBATOR.

The Star Incubator is among the most popular machines in the market. These incubators have grown in popular esteem, and users of them speak well of their work. Artificial incubation is well nigh in a perfected state, and none should hesitate to use incubators for hatching. The Star Incubator is a modern machine in every way, and is self operating, as it were, hatching with-



FACTORY BUILDING, NO. 1, OF THE STAR INCUBATOR AND BROODER CO., BOUND BROOK, N. J.

out the use of moisture, save that which is supplied by their improved system of ventilation. The moisture problem has been one that has caused much anxiety to all users of incubators, and since the introduction of artificial incubation the problem has never been solved to the complete satisfaction of all operators. The Star Incubator is a recent invention and is guaranteed to do its work under any and all conditions. On this question the manufacturers say: "Our method of ventilation is very simple. On the lamp end of the machine will be found two tubes extending two inches below the bottom of the machine, through which the fresh air enters. After the air enters it goes to the top, thence to the other end of the machine, being thoroughly heated on the way, and is discharged into a pocket and distributed to the end of the egg-chamber. It is then carried across the eggs, up between the casings, and out at the same end of the machine that it enters, thus making a complete circuit of the egg-chamber, and it is by this gentle current of air that we are enabled to hatch without moisture. Nature forms an egg so that it will hatch if its laws are not transgressed. If one rushes a strong current of air through a machine, and carries out the natural moisture which is supplied from the eggs, then one must replace it by artificial means, and who can tell just when to put it in? Just how much or how little? This is where so many operators fail. Only experience can help one in such a case as this, and then failure is often the result. It makes no difference where these incubators are run, from the cellar to the highest building, from sea level to mountain top, it has all been tried and the result is always the same—ventilation is perfect, no moisture needed."

The Star Incubator is heated by hot air, by means of a tank or radiator,

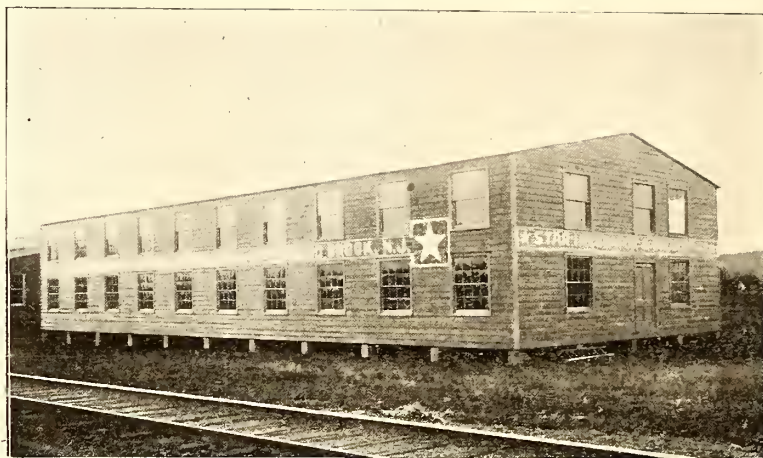
which is arranged with a can screw at opposite end from the lamp, connecting with the main flue; this screw can be removed, and by putting a cloth on the end of a stick all soot and dust, which from time to time collects, may be removed. This is a good feature about this machine, as it removes all danger of fire in the flues, besides insuring an even temperature in the egg-chamber. These incubators are substantially built, being double cased and heavily lined with an extra good quality of building paper, and asbestos paper. They are also packed with mineral wool and heavy hair felting, thus insuring the machine holding its temperature in any climate.

portion. They keep warm and grow more rapidly.

Their outdoor brooder is built on the pipe system. It is heated with a globeless burner, the lamp is within a galvanized iron drum, which sits inside. The lamp is passed in and out through a door at one end; in front there are two doors, the larger one is of double glass to admit light, and when this door is opened there is a wire screen which keeps the chicks from running out and also protects them from cats, etc. The small door is for the use of the chicks in running in and out. The top or roof is made of galvanized iron with edges turned down to keep out the rain and snow; the gases from the lamp pass out through a pipe. The brood-room is the same as in the indoor brooder, having the lighted chamber and the sliding bottom. The Star Incubator is manufactured by the Star Incubator and Brooder Company, with general offices at Bound Brook, N. J. The factory is located at Lincoln, N. J., an enterprising little place adjoining Bound Brook. Mr. L. S. Bache is president of the company, and Mr. J. E. Rutt, treasurer.

A NOVEL SCHEME.

Mr. F. B. Mills, the enterprising seedsman of Rose Hill, N. Y., whose success has been most remarkable, made so largely on account of his enterprise and fair dealing, has devised another scheme that is equally as forceful and attractive. The ten-cent due bill that he furnishes to all who write him for a catalogue is proving a very liberal offer, and our readers need have no fear that



FACTORY BUILDING, NO. 2, OF THE STAR INCUBATOR AND BROODER CO., BOUND BROOK, N. J.

The same care and precision is taken by this company in the manufacture of their brooders as with their incubators. They make all kinds of brooders, sectional, indoor, and outdoor brooders. They have put upon the market this season a new outdoor hot-air brooder that promises to become as popular as their other machines. Their outdoor hot-water brooder is a fine machine and gives universal satisfaction to all who have used it. Their sectional brooders are all heated by hot water. There is one feature about the Star brooders that recommends them very highly, and that is the lighted hover-chamber. This is a good point to use in a brooder as it enables the young chick to keep warm in cheerful quarters; we have noticed the little fellows spending the most of their time in this part of the brooder, to the exclusion of the outside or colder

they will be unfairly dealt with. Better send at once for catalogue and get a due bill which will help pay for your season's seeds.

The object in making this liberal offer is to induce those not acquainted with Mr. Mills to try his seeds for this season. Mr. Mills feels confident that one season's trial will make a permanent customer.

SUCCESS WITH INCUBATORS.

Are you having the success with your incubator that you think you ought to have? If not, then the best investment you can make is to spend 50 cents for a copy of Artificial Incubating and Brooding, claimed by the publishers to be the greatest poultry book ever compiled. It is sold on approval! If on receipt of the book it is not considered by you to be worth the price, it can be



HOUDAN COCKEREL, BRED BY A. J. BARGAHISER.

immediately returned in good condition and the purchase money will be promptly refunded. The most expert incubator and brooder men in America have contributed liberally original articles to this book, telling in detail how to operate incubators and brooders with a maximum of success. The book is fully illustrated with original, copyrighted designs, and is practical in the extreme. It is positively the best bargain in poultry literature offered to date, and will save you dozens of eggs and many dollars if you will follow its instructions. Artificial Incubating and Brooding is published by the Reliable Poultry Journal Publishing Co., Quincy, Illinois, to whom orders should be sent. Price of book, sent postpaid to any address in the United States or Canada, 50 cents.

WINNING BIRDS.

Dr. W. A. Gibson, Jackson, Mich., writes under recent date: "I have shown my Magpies and Archangels at three important shows with marked success. At Toledo, Ohio, won every first but one, in Black, Red, and Yellow Magpies, and nearly all seconds; at same show won 1st and 2d on Archangels. At Detroit won every first but two, 1st and 3d Black cocks, 1st and 2d Black hens, 1st and 2d Red cock and Red hens, 1st and 2d Yellow hens, 2d and 3d Yellow cocks. In '98-bred Blacks, 1st, 2d, and 3d, Reds 1st and 2d, Yellows 2d. In Black cocks defeated the bird that won 2d over me at last New York show. "Archangels 1st and 2d cocks and hens. This week in Chicago at the greatest show in many respects ever held in America, I won as follows:—Black Magpie cock 2d, hen 1st and 2d, Red cock 1st and 2d, Red hens 1st and 2d, Yellow hens 1st and 2d, Blue cock 2d, Silver cock 1st, Blacks '98-bred 1st and 3d, Red 1st, Blue hen 1st, Yellow cock old bird 1st and 5th. At this show without doubt were some of the best Magpies in America.

"In Single Comb White Leghorns I won all firsts, and nearly all second

premiums at the State show, held at Detroit. I also won first on cockerel at Chicago, with twenty-one birds in the class. This makes eighteen shows in succession that I have won first with my Leghorns."

A BIG SHIPMENT.

We show a half-tone illustration of a recent shipment of turkeys to Liverpool, England, by Fisher's Island Farm. The coops seen in cut filled about two-thirds of an ordinary express car. This was a big sale of birds to one customer, and THE FEATHER is pleased to note the progress being made in exporting birds to the old country. Fisher's Island Farm is always doing some such thing as this; they are pioneers in the business.

"OLD HONESTY POULTRY YARDS."

We show two very pretty illustrations of Houdans as bred by A. J. Bargahiser, Rockford, Ohio, proprietor of the "Old Honesty Poultry Yards." Mr. Bargahiser is one of those who have made a success of the poultry business. He breeds Houdans, White Plymouth Rocks, White Wyandottes, and Barred Plymouth Rocks. He treats his customers fairly, gives them satisfaction, or returns your money to you if you are not pleased. See his ad and write him.

TRETAWAY'S BLACKS.

Mr. Arthur Trethaway, of Wilkes Barre, Pa., whose ad appears elsewhere in these columns, has been breeding Minorcas for nine years in this country, and in England when a boy. He writes us that for size and color his birds can not be beat. That he has raised and sold many cockerels this year weighing eight pounds and over.

His yards this year are the best he ever had, and he sends his customers eggs from the same pens he uses himself. All eggs shipped by him are stamped with his name, and if there are not seven fertile eggs in every setting sent out by him the eggs may be returned and he will replace them.

Mr. Trethaway's aim is to have the very best, and how near he has come to that his show record proves.

In 1897, Plainfield, N. J., 1st cockerel.

At the big Rochester show, 1897, 1st hen, 1st pullet, tie 3d, 4th and 5th pullets, 3d cockerel, 2d pen. At Wilkes Barre, 1897, all 1sts and specials.

At Washington, D. C., 1898, 2d cock.

2d cockerel, and 2d pullet. At Wilkes Barre, Pa., all 1sts and specials. At New York, 1898, 1st and special pen, 2d and 3d hens, 2d and 3d pullets, 3d cock. At New York, 1899, 1st and special pen, 2d cockerel, 2d pullet, 2d hen, 3d cock.

We take pleasure in publishing the following testimonials received by Mr. Trethaway:

FALLS CHURCH, VA.

A. TRETAWAY,

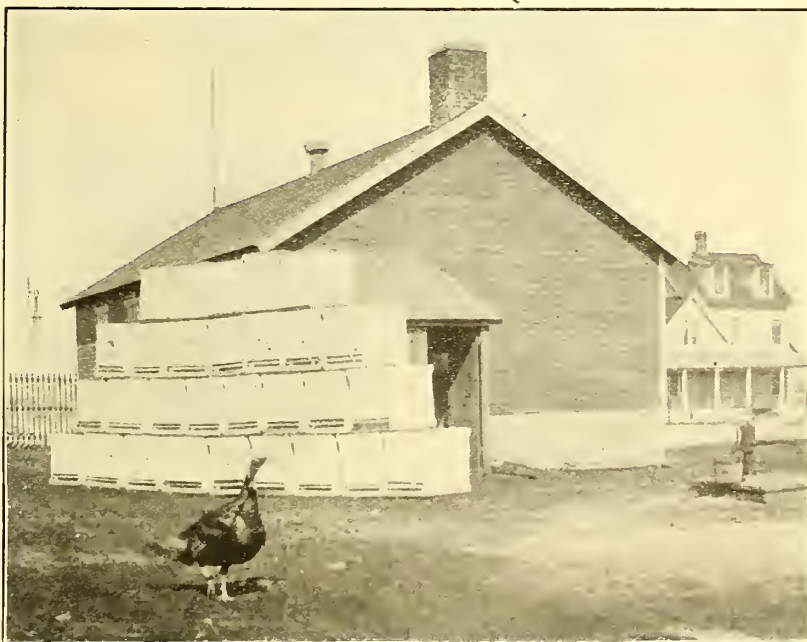
Wilkes Barre, Pa.

SIR: The Black Minorca cockerel was duly received, and can truthfully say he is the best Minorca male I have ever seen. He weighs full eight and one-half pounds, and I hope to breed some birds that will beat you at New York next season. Very truly,

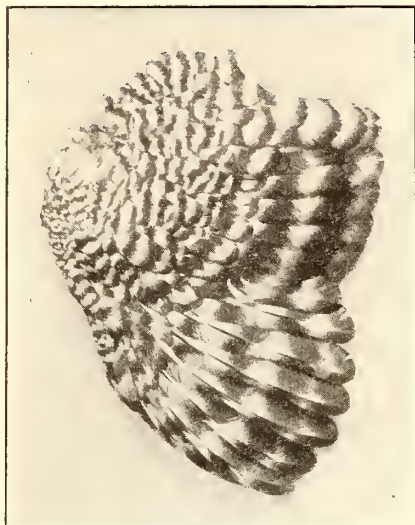
CHAS. L. BLANTON.



HOUDAN PULLET BRED BY A. J. BARGAHISER.



A SHIPMENT OF TURKEYS TO LIVERPOOL, ENG., BY FISHER'S ISLAND FARM.



WING OF BARRED PLYMOUTH ROCK PULLET,
BRED BY DR. E. L. MILES, SAG HARBOR, N. Y.

LOCKPORT, N. Y.

A. TRETHAWAY,
Wilkes Barre, Pa.

SIR: I am very much pleased with the Black Minorca pullets and the cockerel I bought from you; and also the eggs you sent me. They hatched the finest I ever saw. You will find in the New York show catalogue, 1899, that I won three prizes on four entries on cockerels out of your eggs. I wish to add that your birds have been highly spoken of by all who have seen them.

Yours respectfully,

A. J. RUDENICK.

SILVER 'DOTTES.

We show a very pretty cut of the first-prize Silver Laced Wyandotte cockerel, at Chicago, this year. This bird is owned by the Kenilworth Poultry Yards, Oak Park, Ill., where all who are interested in choice stock of this variety should write for prices of stock and eggs. You will be pleased with results.

BLACK JAVAS.

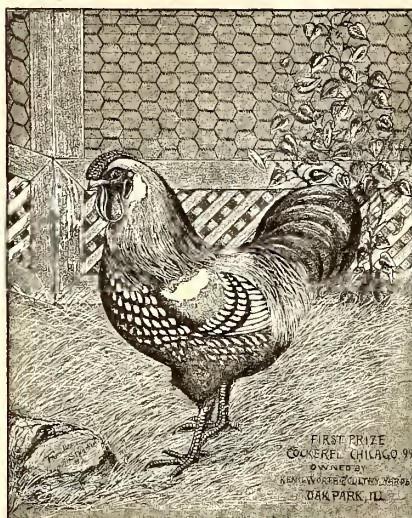
We show in illustration two cuts of Black Javas, bred by F. W. Field & Son, Somers, Conn. These birds are splendid specimens of this variety of fowls, the cock, "Black Diamond," winning first at Boston, and the pullet, "Black Beauty," winning first at Hartford. Their ads are in the classified columns of this number.

THE MONTAUK STRAIN.

The Montauk Strain of Barred Plymouth Rocks has been long and favorably known for their very fine qualities. This strain of birds is one of the best in the land; it would be a difficult matter to get a better. Dr. E. L. Miles, Sag Harbor, N. Y., is the originator and breeder of this strain of birds. The Doctor has made a science of his work, and has scored a phenomenal success. He does not exhibit, but supplies those who do, his customers getting the credit of his labors. We show a half-tone illustration of a wing of one of his pullets. This bird was on exhibition at River Head and was smothered in the car returning from the Exhibition. The Doctor considered it about as fine as any he ever had, and that means considerable. Our readers should write him for prices of his stock and eggs.

Shows and Associations.

At the annual meeting of stockholders of the St. Louis Fanciers' Association, held March 7th last in St. Louis, the following officers and directors were elected to serve during the ensuing year: President, H. A. Cornet; treasurer, E. B. Smith; secretary, John A. Francisco. The above officers with the following-named gentlemen comprise the board of directors: Rob't Bethman, J. H. Ahrens, Jos. Griesedieck, C. C. Kendall, Frank Griesedieck, W. E. Rundle, Henry Steinmesch, J. C. Salzgeber, Leonard Woods, and Dr. Henry Schwarz. The date of the next show was fixed for January 1-6, 1900. Sharpe Butterfield and H. A. Bridge have been engaged to judge the poultry. As yet the pigeon judges have not been definitely decided on, but it is safe to state that the St. Louis Poultry and Pigeon Show will have the best of talent for pigeons as well as poultry.—JOHN A. FRANCISCO, secretary.



FIRST-PRIZE SILVER WYANDOTTE COCKEREL AT CHICAGO, '99, OWNED BY KENILWORTH POULTRY YARDS, OAK PARK, ILL.

The annual meeting for the election of officers of the National Fanciers' Association of Chicago, was held in the club rooms at the Sherman House March 1st. One hundred and six members

responded to roll call. Much interest was manifested and the contest for some of the offices was spirited, though good-natured. The result was as follows: President, W. W. Hogle; first vice-president, L. H. Fuller; second vice-president, C. A. Damon; secretary, Fred L. Kimmey; assistant secretary, K. J. Muir; treasurer, L. B. Richardson. Board of Directors: F. B. F. Rhodes, P. H. Sprague, F. W. Ward, M. Wagner, A. E. Brown, B. F. Hedges, J. C. Pratt, Wm. Plaehn. It was voted to hold the next annual exhibition January 8-13, 1900.

At the organization meeting of the Keystone Poultry, Pigeon, and Pet Stock Association of Philadelphia, held March 8th, enough subscriptions to stock were guaranteed to insure the success of the Association and the payment of all premiums and expenses on the closing day of the show. The capital stock of the Association was fixed at 1500 shares, par value \$5.00, and the following officers elected: Edw. L. Welsh, president; Alfred C. Harrison, first vice-president; Wm. Disston, second vice-president; J. C. Cheston, Jr., treasurer; J. Emlen Smith, secretary; S. M. Robinson, assistant secretary. The date for the first annual exhibition was fixed for November 28th to December 2d, 1899, inclusive. All entries will close November 18th. Preparations are being made for one of the largest, most attractive and important poultry, pigeon, and pet stock exhibitions that has ever been given in this country. Address all correspondence to S. M. Robinson, assistant secretary, 906 Girard Building, Philadelphia, Pa.

The Kansas City Fanciers' Poultry, Pigeon, and Pet Stock Association met on March 24th and decided to hold their next show January 19-24, 1900. Hope our date may not conflict with the dates of any other association. Our show this year will be held in the new Convention Hall. The association is out in full force, not only to give the best and largest poultry show ever held in Kansas City, but they are making every effort to make this one of the grandest and largest shows ever held in America. Come brother fanciers and breeders, let us hear from you. We need and shall appreciate your aid.—Dr. F. Strausbaugh, secretary, Kansas City, Kan.



BRED AND OWNED BY

BLACK
JAVAS.



F. W. FIELD & SON, SOMERS, CONN.

METALLIC GREEN STRAIN.

We are in receipt of circulars and feathers of the "Metallic Green Strain" of Black Minorcas as bred by the Wood Creek Poultry Yards, Rome, N. Y. G. R. Willson is proprietor of these yards, and he assures us that the sample of feathers he sends represents the true color of his strain generally. The color we think is very good. See his ad, and write for free circulars and testimonials.

A CORRECTION.

In our personals last month we said that "N. V. Witbeck, Burnt Hills, N. Y., sent us for inspection several sickle feathers from his Buff Cochins Bantams." It should have read Buff Plymouth Rocks instead of Bantams.

TRANSFER OF STOCK.

This is to certify that I have sold to Mr. L. L. Lucas, of Oil City, Pa., my entire stock of Buff, Black, and White Cochins Bantams, known as the Woodcleft Strain, without reserve. I will advise all my customers and others who are looking for the best, either in stock or eggs, to buy from Mr. Lucas, as these birds added to his already noted string of Cochins Bantams must place him far ahead of any breeder of Cochins Bantams in America.

CHAS. S. POWELL.

ELM TREE FARM.

Elm Tree Farm, West Lenox, Pa., begins advertising in this number. This farm breeds Barred Plymouth Rocks and Cornish Indian Games. Their stock is good, and comes from the very best yards. They also grow strawberry and raspberry plants. They are generous enough to give a year's subscription to THE FEATHER to every customer whose orders amount to \$2.00 for either poultry or eggs. Read their ad and write them for particulars.

WINNING ROSE COMES.

Pleasant View Poultry Yards, W. G. Fronheiser, proprietor, Pottstown, Pa., have a change of advertisement in this number. These yards breed R. C. Brown Leghorns and have won first on their stock at Mt. Gretna, Hagerstown, Boston, and New York. See their ad in the classified columns and write them for eggs, which are only \$1.00 per setting.

TRANSFER OF STOCK.

NEW HOLLAND, Pa.
March 1st, 1899.

This is to certify that I have sold and delivered to Gery Bros., Reading, Pa., my entire flock of Buff Leghorns, Cornish Indian Games (excluding all 1899 chicks to date), fixtures, and Homing Pigeons, including my winners at New York, Boston, Elmira, Washington, Hagerstown, Mt. Gretna, Coatesville, Wilkes Barre, West Chester, and Carlisle (106 chickens and 45 pigeons). In obtaining this flock of birds Messrs. Gery Bros. have secured, in my opinion, a collection second to none in this country, and any one desiring birds or eggs, will make no mistake by placing their orders with them. I recommend any prospective purchasers and my former patrons to the above-named firm.

GEO. W. KINZER.

Prop. Kinzer's Poultry Farm.

KLEE'S BUFFS.

The ad of W. C. Klee, 278 Meigs St., Rochester, N. Y., which appears in this

number will prove of much interest to those who are interested in Buff Wyandottes and Buff Plymouth Rocks. Mr. Klee has made quite a success with his birds and has shown them in the best show-rooms of the country. He has sent us a beautiful collection of feathers from his birds, which in our opinion are very fine. These feathers are of splendid color, and bespeak well of the birds from which they were taken. Read his ad and write him for his 1899 circular.

Subscribe for THE FEATHER.

BANTAM TRANSFER.

NEW YORK, Feb. 16, 1899.

This is to certify that all of the Elmwood Farm White Cochins Bantams have been transferred to Mr. A. E. Blunk, of Johnstown, N. Y., without any restrictions whatever upon us. This transfer includes every White Cochins Bantam that we possess at the present time, among them a number of prize winners.

(Signed)

T. F. MCGREW,

1267 Broadway, New York City.

GEO. B. RANDOLPH, Weston, N. J.

Sold only in Sealed and Branded Sacks.



It Makes Hens Pay.

"THE ONLY PROPER FOOD."

HAGERSTOWN, MD., July 6th, 1898.

GENTLEMEN:—We have subjected your American Poultry Food to the most thorough tests and with gratifying results. It has produced such marked benefits on young "peeps," growing birds and laying hens, that we have adopted it as the only proper food, and we feel that we cannot too strongly recommend its use to all poultry breeders and fanciers.

A. W. RUDY & SON.

The above bird is owned by Messrs. Rudy & Son, and has received two first prize awards. She was reared and fitted for show on American Poultry Food.

Practical Poultry Feeding, a little book covering a wide range of subjects of vital interest to Poultrymen, will be sent you free, post paid, on request.

Address, SCIENCE DEPARTMENT,

THE AMERICAN CEREAL CO.,

1351 Monadnock Bldg.,
CHICAGO, ILL.

Classified Advertisements

Fully prepaid advertisements of thirty words or less inserted under this heading at the following rates:

| | |
|------------------|--------|
| One time..... | \$.50 |
| Three times..... | 1.00 |
| Six times..... | 2.00 |
| One year..... | 3.50 |

READ CAREFULLY.

Copy may be changed as often as desired, though we advise running a standard ad. when possible, in order that buyers may become acquainted with it. Length of ad. is not limited, but additional words will be charged at the rate of 1½ cents each for one insertion, or 1 cent each for each insertion when run three times or more. Initials and figures count as single words.

PLYMOUTH ROCKS

BUFF PLYMOUTH ROCKS ONLY.

Now "Old Glory" proudly waves o'er Porto Rico: The Philippines are ours, and Cuba free: Vast armies must be paid, you can meet the taxes laid.

By breeding Burdick's "Nuggets," don't you see? My strain is well known as producing the winners at all the leading shows, Chicago, '99 included. Matings for 1899 surpass anything before attempted. January and February eggs half price. Eggs that hatch for March, April, and May \$3 for 15. After May eggs again half price. Breeding and exhibition stock always reasonable. Write, H. S. BURDICK, Rome, N. Y.

WHITE ROCKS EXCLUSIVELY. Bred for practical and exhibition purposes. Two firsts and one second from three entries, Hagerstown, 1898. First and second hens, second cockerel, Washington, D. C., 1899. Eggs, \$1.50 per 13. Stock for sale. J. F. DEFANDORF, Garrett Park, Md.

BARRED PLYMOUTH ROCKS EXCLUSIVELY. Thompson strain. Eggs for hatching from six choice well-mated yards. \$1.50 per 15, \$5 per 100. H. E. KIPP, Red Hook on Hudson, N. Y.

BARRED PLYMOUTH ROCKS. Thompson & Bradley Bros' strains. Eggs from fine large birds \$2 per 13. "Fertility of eggs guaranteed." T. H. HARTMAN, Fullerton, Lehigh Co., Pa.

OVERBAUGH'S BARRED PLYMOUTH ROCKS. Won at Mt. Gretna 1898, 1st and 2d cock, 1st and 4th hen, 3d cockerel, 3d pullet, \$5 gold special and Pennsylvania State Poultry Association Bronze Medal for best display. Eggs \$2 for 13. "Hub" 1st Boston cock, heads one of my yards. Also Buff P. Rocks and Buff Leghorns. Catalogue free if mention The Feather. W. H. OVERBAUGH, JR., Hanover, Pa.

BUFF PLYMOUTH ROCKS. Strong, vigorous birds buff to the skin. Stock for sale. Incubator eggs, \$4 per hundred. Circular free. JAS. H. CORWITH, Water Mill, N. Y.

BARRED PLYMOUTH ROCKS exclusively. First-class stock for sale. Large, grand shape and blue barred. Cockerels at \$2 to \$4 each. We are especially strong in fine pullets, good color, and clean yellow legs and beaks. Your money back if not as represented. Write, J. F. HOLLENBECK, Afton, N. Y.

BARRED PLYMOUTH ROCKS. Be in line with prize winners next fall. Get eggs early from my superior high-scoring birds. Write me. T. A. SOMDAL, Mansfield, Ill.

BUFF PLYMOUTH ROCKS ONLY. "Pure Burdick strain." No more stock till fall. Eggs from select, high-class birds only, \$2 per 13. Winners among them; satisfaction guaranteed; try me. VERNON K. DAYHOFF, Chewsville, Md.

JUST LISTEN! White P. Rocks exclusively. Won all firsts at North East, Fredonia, Erie. Pullets scoring as high as 95%, headed by our celebrated cockerel, "Victor," 94%. Eggs, \$2 per 15. Address, C. W. PAGE & SON, North East, Penn.

HOME OF THE BLUE BARRED P. ROCKS. Ringlet strain. Six grand breeding-pens for 1899. My stock is pure bred and finest and best quality. My birds are blue to the very skin. Give me your order; I can please you. Eggs, \$1 per 13; \$2 per 20. DR. ANDREW BURT, Tamaqua, Schuylkill Co., Pa.

WHITE PLYMOUTH ROCKS Exclusively. Pure white, first prize wherever shown. Eggs, \$2 per 15. Satisfaction guaranteed, circulars free. Member Advisory Board American White Plymouth Rock Club. I. F. SCHOTT, Box 175, New Pittsburg, Ohio.

BUFF PLYMOUTH ROCK EGGS \$1 per setting; \$4 per hundred. M. E. COOKE, Sandwich, Mass.

WHITE ROCKS (Hawkins, Empire), Barred Rocks (Thompson, Hawkins). Choice breeding cockerels, \$2 each. Eggs, \$1 per 15; \$5 per 100. LYON & SONS, Spring Hill, Pa.

INTRODUCTION OFFER. To convince the poultry raiser that we have standard-bred Barred Plymouth Rocks, for this season we offer eggs at only one dollar per setting, or \$6 per hundred. We have a combination of the best strains in this country. Satisfaction guaranteed. Reference, First National Bank. Address, W. H. YENNEY, Glassboro, N. J.

BUFF PLYMOUTH ROCKS. Nuggets only. Won at Pennsylvania State Fair bronze medal; at Coatesville recent show, blue and red ribbons: For six years they are no strangers. Eggs, best mating, \$1.50 per setting; two settings \$2.50; \$4 per 50. KERLIN & SON, Shenkel, Pa.

WHITE ROCK POULTRY FARM. White Plymouth Rocks exclusively. Winners at the following shows: Saratoga, Cambridge, Sandy Hill, and Troy, 1898. High-scoring birds for sale. Eggs, \$1.50 per 13; 3 settings \$4. J. F. WITBECK, Box 48, Burnt Hills, N. Y.

RAISE YOUR WINNERS and next year's breeders. I can furnish eggs that will produce them. Buff, White, and Barred Plymouth Rocks, Golden Wyandottes, and Black Minorcas' Eggs, \$1.50 per 13. Satisfaction guaranteed. Catalogue free. A. G. CLEMMER, Morwood, Pa.

BUFF PLYMOUTH ROCK EGGS for hatching. My Buffs are the famous Wilson and Burdick strains, are first class, and my price of eggs is very low, considering quality. Also eggs from beautiful White Wyandottes. Write, CLINTON ELLIOTT, Sag Harbor, N. Y.

BUSINESS BUFFS ON BUSINESS BASIS. On stock sales satisfaction guaranteed. On eggs for hatching, if less than half hatch, duplicate at half price. If less than fourth hatch, duplicate free. Something for your money every time. Pen marks on eggs, so customer can mate up from his hatch. Our strain of Buff Rocks ranks among the best in the country. Eggs, \$2 per 13 straight. WILSON BROS., Sag Harbor, N. Y.

MY BUFF PLYMOUTH ROCKS, at Washington this season, won 1st on hen, 1st on pullet, 4th on cockerel, and four specials. Write for circular giving other winnings. Some stock for sale. Fertile eggs, \$2 per 13; \$4 per 30. MILES LOUER, East Onondaga, N. Y.

ROOKER'S BUFF ROCKS, were winners at Madison Square Garden, Buffalo, Chicago, Hagerstown, Rochester, and others. Stock and eggs for sale cheap. Stamp for circular. Vice-President Buff Rock Club, for State New Jersey. J. E. ROOKER, Box 202, Washington, N. J.

BUFF ROCKS. 12 Premiums at Boston, 1899. Circulars. FIELD & SON, Somers, Conn.

WHITE PLYMOUTH ROCKS THAT WIN. Chicago, 1899, won 1st and 5th pullet, 4th and 5th hen, 5th cock, 2d pen (tie 1st) Indiana State show, 1899. 1st, 2d, 3d, and 4th cockerel, 1st, 2d, 3d, and 4th hen, 1st pullet, 3d cock, 1st and 2d pens. Eggs only \$3. Circular. R. M. GARD, Frankfort, Ind.

EGGS at \$1.50 per 15, from large Blue Barred Rocks, barred to the skin, yellow beaks and legs. Have bred them fourteen years. J. R. LANE, Fort Edward, N. Y.

BUFF P. ROCKS EXCLUSIVELY. Eggs of fine stock, \$1 per 15; \$2 per 40; \$3 per 60. Also 300 Fancy Pigeons, White A. Guineas, Wild Geese, Bees, and Belgium Hares. Circulars free. A. S. SWARTLEY, Line Lexington, Pa.

FOR SALE. Thoroughbred Ply. Rocks and White Wyandottes. Eggs for setting, one dollar for 13. Also a few White Wyandotte cockerels, three dollars each. Cash with order. Address A. M. SHETLER, 24 Amesbury St., Lawrence, Mass.

HUDSON RIVER POULTRY FARM. Poughkeepsie, N. Y. Breeders of America's best Buff and Barred Plymouth Rocks. Eggs from prize matings, \$2 per 15. Incubator eggs from Barred Rocks, \$5 per 100. Catalogue free. Good hatch guaranteed. EDGAR BRIGGS, Mgr.

THE UP-TO-DATE STRAIN of Barred Plymouth Rocks. Catalogue for stamp. Stock for sale. Eggs, \$1 per 13. Guarantee satisfaction. If you wish high quality at a fair price, Address, J. M. PORTER, Morristown, N. J.

BARRED PLYMOUTH ROCKS. Only first-class stock kept; raised on the farm and new blood introduced each year. Eggs, \$1 per 15, and none better. NANNIE LEVIER, Fisher P. O., Penn'a.

BUFF PLYMOUTH ROCKS Exclusively. My Buffs have won highest honors at Cleveland, O., Kansas City, Mo., Mt. Gretna, Pa., Hamburg, N. Y. State Fair, Poughkeepsie, Middletown, and Oneida, N. Y., (won eight premiums on seven entries at Oneida Poultry Show, Feb. '99). A limited number of birds of the same blood as the above for disposal cheap. Eggs, \$2 per 13; \$5 per 40. H. C. FOXTON, 416 Hamilton St., Syracuse, N. Y.

BUFF ROCKS, BURDICK AND WILLSON strains, 13 eggs, \$2; 30 for \$4. Barred Plymouth Rocks, 13 eggs, \$1.50; 30 for \$3. L. E. SMITH, Granger, Ind.

\$3 EGGS, \$1. Barred Rocks, farm grown, large size, heavy layers, Ringlets. To advertise our birds, offer this season's eggs for \$1 per setting. J. E. TAYLOR, Greenville, Mich.

BARRED PLYMOUTH ROCKS from leading strains that are standard bred. Eggs from choice matings, \$1 per 13. R. C. W. Leg. sold. LEW H. STEWART, 940 W. Ninth, Erie, Pa.

EGGS, \$1 per 13, from high-class Buff P. Rocks, Buff Leghorns, White Wyandottes, R. C. Brown Leghorns, and Buff Cochins Bantams. Fowls have grass range. Satisfaction guaranteed. W. J. WIBERLEY, Peekskill, N. Y.

BROOKLAND POULTRY YARDS, Brookland, D. C., are now offering 15 Brown Leghorn eggs for \$2, and 13 Buff Plymouth Rock eggs for \$2, from winners of 51 regular, 8 special prizes, at Washington, D. C., 1899, Coatesville, Pa., Hamilton, Va., Southern Md. Fair, Marlboro, Md., and Rockville, Md., 1898. Write R. C. BOOTH, Mgr.

BARRED PLYMOUTH ROCKS Exclusively. My yards, are mated with large good shaped cockerels, that weigh from 8½ to 10 lbs. and barred to the skin. Females are large and well barred. Eggs for hatching, \$1.50 per 15; \$2.50 per 30. Satisfaction guaranteed. WM. R. PAGE, Avon, N. Y.

BUFF ROCKS. Pen scoring 94, 93¼, 93, 93, 92½, 92½, 92, by Judges Bridge and Butterfield. Eggs, \$3 per 15. Stock with score-card. B. NORTHROP & SON, Lansing, Mich.

REMEMBER TRASK'S PLYMOUTH ROCK FARM, when you are looking for Barred, White, or Buff P. Rocks. They won two seconds in Peabody, two firsts, one fourth, and special in Beverly, 1899. Eggs, only \$1 per 13 this season. E. F. TRASK, 210 Bridge St., Beverly, Mass.

EGGS FOR SALE—\$1 per 15. Barred Plymouth Rocks, Single Comb Brown Leghorns. From first-class stock well mated. Address, GEORGE W. DUVAL, Box 131, Coal Centre, Washington County, Pa.

PLEASANT STREET POULTRY YARDS. Barred and Buff Plymouth Rocks, Golden Wyandottes. First-class stock. Eggs from choice breeding-pens, \$1.50 per 15; \$2.50 per 30. W. P. SANBORN, Epping, N. H.

OUR BARRED PLYMOUTH ROCKS carefully bred. 14 years, winners at Ware, Fitchburg, and Northampton, scoring 94½, May and Atherton, judges. Eggs, \$1.25 and \$2 per 13. W. H. RIVERS, Ware, Mass.

WHITE PLYMOUTH ROCK Eggs, \$1.50 per 15, from first-prize winners. Cockerel 94½, pullets 96, 96, 95½, 95 at Portsmouth (Ohio) show, Feb., 1899. H. C. ROBBINS, Hamden Junction, Ohio.

HICKSON'S BARRED PLYMOUTH ROCKS and White Wyandottes won eight regular and two special prizes on nine entries at Washington, D. C., Hamilton, Va., and Charlotte, N. C. Eggs, \$1 per 13. Write, M. B. HICKSON, Lynchburg, Va.

NOURSE'S WHITE PLY. ROCKS win three regular prizes and one special at Boston, 1899. Eggs from two pens containing these winners, \$1.50 per setting. H. A. NOURSE, Box 711, Barre, Mass.

BARRED PLYMOUTH ROCKS exclusively. A giant cock weighing twelve pounds in ordinary breeding condition. Hens up to ten pounds, good color, bright yellow legs and beaks. Setting, \$2.50. MILTON H. TAYLOR, Box 55, Masontown, W. Va.

WHITE P. ROCKS.—Winners at Cape May, Trenton, and Hagerstown, the past season. One yard headed by a cockerel sired by "White Cloud," the famous Fisher's Island winner. Eggs, \$2 for 15. Simplex Incubator and Brooder combined for sale. C. C. BURROUGH, Clayton, N. J.

BARRED P. ROCKS EXCLUSIVELY. Bred for business. Large, vigorous, finely barred birds mated with cockerels from Bright and Hunter strains. Eggs, \$1 per setting. ROY C. HASTINGS, Malone, N. Y.

BUFF PLYMOUTH ROCKS Burdick strain. Two grand breeding pens. Won at Ashland poultry show. Charles McClave, judge. Eggs, \$2 per setting. E. C. OVERS, Ashland, Ohio.

EGGS from Barred Plymouth Rocks, winning at Spartanburg show. D. M. Owens, judge. 1st on cock, 1st on pullet, 1st on pair, and best trio exhibited, at \$1 per 13. Satisfaction guaranteed. W. W. FANT, Spartanburg, S. C.

WHITE PLYMOUTH ROCKS. Farm raised, strong, and healthy. Eggs, \$1.50 per 15; \$2.50 per 30. 13 Indian Game hens and 1 cock for sale. M. HARVEY IVINS, Penn Valley, Pa.

MY BARRED PLYMOUTH ROCKS are mated for shape and feather, very hardy, fine layers. Eggs, one dollar per setting. Buckeye fifty-egg incubator \$2.50. Reference by permission, Hartwell Bank. A. W. ADAMS, Hartwell, Ga.

NOYES Breeds Buff Plymouth Rocks of Burdick's Nugget strain, one of the best in America. My stock were hatched from eggs bought direct from him, and I have some nice ones, good size, shape, and light buff, with buff undercolor to skin, no white nor feathered legs, low combs. Eggs, \$2 per 13, good hatch guaranteed. P. W. NOYES, Mystic, Conn.

LEGHORNS

CEDAR HILL POULTRY FARM—Write to Cedar Hill Fruit and Poultry Farm for prices on Single Comb Brown Leghorn, Barred P. Rock, Buff Cochins and Light Brahma fowls and eggs. Some fine surplus cockerels of first-named breeds for sale low. Eggs for incubator use \$5 per 100; good common eggs (large breeds), \$2.50 per 100. R. S. COLE, Harman, Md.

FORSYTH STRAIN S. C. BROWN LEGHORNS. 33 prizes on 33 entries at Rochester, Dansville, and Hamburg. My breeders score from 90 to 94. Eggs, \$1 per 15; \$1.75 per 30. Satisfaction guaranteed. FRANK G. RICE, Dansville, N. Y.

S. C. BROWN LEGHORNS. Tenth season. Eggs, \$1. Choice Cornish Indians, Light Brahmas and B. P. Rocks' Eggs, \$1.50. HOWARD A. PINNEY, Sheffield, Warren Co., Pa.

WE HAVE LAYING QUALITIES; size, typical shape, standard color, in S. C. B. Leghorns; what more can you ask? Eggs, \$1.50 per 13; \$2.50 per 26. W. B. GERMAN, Specialist, Millville, Pa.

BUMPS S. C. WHITE LEGHORNS made nearly a clean sweep at Cambridge and Johnstown last fall. Eggs from my best mating \$2 per 15; \$5 per 100; from birds with free range. A few good cockerels at \$2 each. White Holland Turkey eggs \$2 per 13. H. V. BUMP, Cambridge, N. Y.

50 C. PER DOZEN, \$3.50 per hundred, Wyckoff strain. White Leghorn eggs. Circular free. S. J. BISHOP, Cheshire, Conn.

OUR BUFF LEGHORNS AND GOLDEN Wyandottes win for us and they will win for you. At Painesville and Ashtabula they won 26 premiums. Our birds scoring as high as 90½ points. Eggs, \$1.50 per setting. C. F. BLACKMON & SON, 116 South St., Painesville, Ohio.

PLEASANT VIEW POULTRY YARDS.—Rose Comb Brown Leghorns which have again been winners at all the leading shows. 1st cockerel at Madison Square Garden, 1st cockerel at Boston, 1st cockerel at Hagerstown, 1st cock at Mt. Gretna. Stock for sale at all times at reasonable prices. Eggs for hatching, \$1 per setting. Address, W. G. FRONHEISER, Prop., Pottstown, Pa. J. B. HOFFMAN, Mgr., Sanatoga, Pa.

ROSE COMB BROWN LEGHORNS exclusively. Hadley strain. Pure stock; farm raised; 12 years' experience with this variety. Eggs, 50 cents a setting. V. W. BASEL, Box 34, New Milford, Ohio.

50 S. C. BROWN LEGHORN cockerels and pullets, sired by first prize cockerel, Hamilton, Va. and Hagerstown, Md., 1897. Also 150 Barred and Buff P. Rocks, Buff Leghorns, and Black Langshans, sired by males direct from Thompson, Burdick, Arnold, and Robinson, price \$1 to \$3 each. Eggs, \$1 per 13; \$2 per 30. ROCHELLE POULTRY YARDS, G. W. WAYLAND, Prop., Rochelle, Va.

75 CENTS PER 15, \$4 per 100, for eggs from Single Comb White Leghorns (Knapp Bros.' strain direct). Good hatch guaranteed. Orders booked for future delivery. CYRUS AULENBACH, Rehrersburg, Pa.

S. C. B. LEGHORNS EXCLUSIVELY. 15 eggs for \$1. from choice prize-winning stock. Good healthy birds, well mated, sure to please the purchaser. A trial order will convince you. 1898 Pullets for sale. WEBER W. MAST, Coatesville, Pa.

MY S. C. BROWN LEGHORNS have won at West Chester, Mt. Gretna, Pittsburgh, and Hagerstown, they are fine big birds. Dorsey's strain. I have mated 2 pens for pullets; 1 pen for cockerels, this pen is headed with my 1st-prize cockerel at Hagerstown. Remember you get eggs from these same pens; send \$3 and get 26 eggs. Address, E. N. MORRIS, Fawn Grove, Pa.

SINGLE COMB WHITE LEGHORNS. My breeding-yard is headed by 1st cockerel at Pittsburgh, 1898, a large fine bird mated with 15 Wyckoff females, four of which won 2d on pen at Washington, D. C., 1899. Eggs, \$1 per 15; \$3 per 50. A few pullets, \$1 each, 6 for \$5. Also Barred and White Plymouth Rock eggs same price as Leghorns. My Rocks are bred for utility. Correspondence invited. C. M. BARTLETT, Agnewville, Prince William Co., Va.

S. C. B. LEGHORNS EXCLUSIVELY. Eggs fifty cents per 13; \$2.50 per hundred. I breed from winners. Satisfaction guaranteed. E. V. LANE, Lacon, Ill.

If "Like Produces Like"

You will run no risk in buying
HUNT'S SUPERIOR BEST PRIZE
R. C. Brown Leghorns **BUSINESS PROFIT**
R. C. Black Minorcas **BREEDS RECREATION**
My "Superior Strain" is giving universal satisfaction to my customers, among whom are some of the most prominent breeders in the U. S. Circ. free.
C. I. HUNT, Nunda, N. Y.

S. C. BROWN LEGHORNS. Double matings for size, shape and striping of saddle and hackle, which is my hobby; also fine combs and lobes. Eggs, \$1 for 13. Hatch guaranteed. WILLIAM QUIGLEY, 3618 Market St., Philadelphia, Pa.

CHOICE UP-TO-DATE STOCK of Single Comb Brown Leghorns and Silver Laced Wyandottes. Stock for sale. Satisfaction guaranteed. Eggs, \$1 per 13. If you wish fine quality and fair treatment, address J. M. PORTER, Morristown, N. J.

BLANCHARD'S WHITE LEGHORNS. the leading strain of heavy layers. Breeders the best from 1200 carefully bred birds. Eggs for hatching. Circular free. H. J. BLANCHARD, Box F, Grooten, Tompkins Co., New York.

CLOSING OUT SALE of S. C. White and Brown Leghorns. 140 females and 10 male birds. Have bred Leghorns for twelve years and won over 200 prizes on these varieties. Good opportunity to get fine birds reasonable. C. HAMMERSCHMIDT, South Buffalo, N. Y.

BROOKLAND POULTRY YARDS, Brookland, D. C., are now offering 15 Brown Leghorn eggs for \$2, and 13 Buff Plymouth Rock eggs for \$2, from winners of \$1 regular, 8 special prizes, at Washington D. C., 1899, Coatsville, Pa., Hamilton, Va., Southern Md. Fair, Marlboro, Md., and Rockville, Md., 1898. Write R. C. BOOTH, Mgr.

BUFF LEGHORNS EXCLUSIVELY. I breed the "buff" recognized by the Standard, rich golden plumage and prolific layers. Have won wherever shown. Eggs, \$1.25 per 15. Incubator lots at reasonable rates. Fine stock a matter of correspondence. L. H. WOODRUFF, Shick-shinny, Pa.

S. C. BROWN LEGHORNS exclusively from America's best strains, winning at Rochester, Jan., '99, 3 firsts, 4 seconds, 2 fourths, 7 specials. Stock and eggs 'n season. LEONARD SWEET, Amsterdam, N. Y.

EGGS FOR HATCHING from Rose and Single Comb Brown and White Leghorns, \$1 per 13; \$2 per 39. PLEASANT VALLEY POULTRY YARDS, Felchville, Vt. 12 years a breeder. Fine stock.

BUFF LEGHORNS—Pure buff beauties. Send for circular, list of premiums won since 1891. Eggs from prize winners \$3 per 15. L. D. ATWATER, HEATHER BELL FARM, Waverly, N. Y.

BUFF LEGHORNS EXCLUSIVELY. Won in '98, 1st cock, Mt. Gretna; 1st pen, 2d pullet, Carlisle; 2d pen, 2d cock, Hagerstown. Eggs from best yards, \$1.50 per 13. W. H. KENDIG, Newville, Pa.

BUFF LEGHORNS. 15 eggs \$1. Best catalogue ever issued on this peerless breed.
V. MARKEN, Frederick, Md.

I BREED BUFF LEGHORNS ONLY. 2 fine pens, Arnold and Fulton strains. Fresh, fertile eggs. Satisfaction guaranteed. Eggs, \$1.50 per setting of 15. \$4 per 50. EDWARD BATES, Newark, Ohio.

ROSE COMB WHITE LEGHORNS exclusively. Eggs for sale from large, vigorous stock, \$1.50 per 13. If you want the best procurable address, G. T. SEELYE, Burnt Hills, N. Y.

SINGLE COMB BROWN LEGHORNS. Scores running from 92½ to 94½. Fine carriage, rich plumage, dark undercolor. None better. Eggs, \$1. JOHN A. KISTER, Mill Brook, Ohio.

S. C. WHITE LEGHORNS, Knapp strain. Pen headed by 1st-prize bird at the big Rochester show. Eggs, \$1 per setting. C. A. HUBACHEK, 462 Jay St., Rochester, N. Y.

FERTILE EGGS that hatch. S. C. White Leghorns exclusively. \$1 per 13; \$3 per 50; \$5 per 100. W. WARREN, Ransomville, N. Y.

BRAHMAS

CHESTNUT GROVE POULTRY YARDS JOSIAS J. GEORGE, Proprietor. Yards at Jenkins P. O., Long Green Valley, Baltimore Co., Md. City address, 443 North Street, Baltimore, Md. Light Brahmas Exclusively. Early-hatched cockerels and pullets for sale. Cockerels, \$3 to \$5; trios, \$5 to \$8. Yard headed by cockerel 1st prize at Washington, 1897.

CHOICE UP-TO-DATE STOCK of Light Brahmas, Single Comb Brown Leghorns, and Barred Plymouth Rocks. Eggs, \$1 per 13. Stock for sale. Satisfaction guaranteed. If you wish high quality and fair treatment, address J. M. PORTER, Morristown, N. J.

LIGHT BRAHMAS EXCLUSIVELY. My stock is absolutely pure and thoroughbred. Eggs for hatching a specialty. Try me. Satisfaction guaranteed. Eggs, \$1.50 per 15. F. W. DAVIS, Keyser, W. Va.

FOR SALE.—4 fine trios of Light Brahmas, one year old, at a bargain; also 25 Light Brahma cockerels for sale from \$2 to \$5 each; all good standard weight. HALENBACH POULTRY YARDS, Box 141, Wilkes Barre, Pa.

BUFF BRAHMAS. American's best. First at Toronto; first at Boston. Houdans, champions of New England. Brahma and Houdan cockerels for sale. Eggs, \$2 per 15. Circular GEO. W. DAINS, East Litchfield, Conn.

CHOICE UP-TO-DATE STOCK of Light Brahmas, the Duke of Morris strain. I have the cream of the late Stephen Spencer's stock in my yards. Stock for sale. Eggs, \$1 per 13. Satisfaction guaranteed. J. M. PORTER, Morristown, N. J.

AT MADISON SQUARE GARDEN. '99, MY Light Brahma won three firsts, three seconds, one fourth and two Silver Cups. Eggs from pen headed by first cockerel or second cock, \$4 per 13. ALBERT L. SESSIONS, Bristol, Conn.

75 CENTS BUYS 13 EGGS from my mammoth, pure-bred Light Brahmas, large, good laying, early-maturing strain. Order from this ad. 1 Apollo Out-Door Brooder for \$5. NEWTON GRAYBILL, Richfield, Pa.

FOR SALE.—Dark Brahmas, one male and three females. Fine stock. Write for particulars. Mention The Feather. A. GILLETTE, Canaan, Litchfield Co., Conn.

GAMES

CHAS. T. CORNMAN, Carlisle, Pa., breeder and exhibitor of Black Breasted Red Games and Black Breasted Game Bantams. Winners at the largest shows in America. A few birds of high quality for sale. Eggs in season.

H. T. HERMAN, Carlisle, Pa., breeds the choicest strains of Black Breasted Red and Red Pyle Games, White Faced Black Spanish, Black Breasted Red and Red Pyle Game Bantams. Stock for sale. Eggs, \$2 per 15.

FOR SALE.—Indian Game cocks, cockerels, pullets, and hens. Premiums at Washington show every time exhibited. See premiums 1899. E. M. MELLOR, Sykesville, Md.

BAKER'S INDIAN GAMES are still crowing and cackling as loud as ever. Eggs, only \$2 per 15. Satisfaction guaranteed. Stock for sale. BENJ. H. BAKER, Thruston, Ky.

FREE \$1 EGG CIRCULAR. Games, Irish Black Reds, Heathwoods, Irish and Mexican Grays, Tornadoes, Rouen Ducks, Cornish Indians, \$2. C. D. SMITH, Fort Plain, N. Y.

EXHIBITION B. B. R. GAMES. My birds won this year at St. Louis, Palmyra, Peoria, Springfield, and Chicago. Will sell eggs from winners at \$3 per 13. Address J. M. HOWLEY, Springfield, Ill.

PURE SOUTHERN BLOOD PIT GAMES. I breed the following strains in their purity, viz: Eslin's celebrated Red Quills, Brown's Georgia Shawnecks and Huddlesons. Stock from the above for sale; also eggs; prices reasonable. Correspondence solicited. JOS. A. WILSON, Johnson City, Tenn.

INDIAN GAMES—Cornish and White, one of the best flocks in this country. Won prizes at New York this year and last. A lot of good ones for sale. Eggs, \$3 per 13. Imported Booted Birmingham Rollers, \$3 a pair. DR. EDW. MOORE, Albany, N. Y.

WYANDOTTES

WYANDOTTES, GOLDEN, BUFF, AND Partridge, McKen strain, winners at Chicago, Washington, D. C., Davenport, Iowa, Mid-Continental, Kansas and Nebraska State shows. Stock and eggs for sale. Send stamp for catalogue. W. A. DOOLITTLE, Sabetha, Kan.

SILVER WYANDOTTES EXCLUSIVELY.—Winners and layers; healthy, vigorous stock. Surplus all sold. Hatching now for fall sales. Tip top matings. J. M. HAMBLIN, HIGHLAWN FARM, Vienna, Fairfax Co., Va.

SILVER WYANDOTTES.—I have for sale 15 cockerels for \$2 to \$5; 1 cock \$3; 12 females \$1 to \$3. Satisfaction guaranteed. R. G. WILLIAMS, Barre, Mass.

BUFF WYANDOTTES EXCLUSIVELY. Buff to the skin. Great winter layers. Eggs from best matings, fifteen for \$1.50; thirty for \$2.50. W. P. PRATT, Chatham, N. Y.

SILVER LACED WYANDOTTES exclusively. Ten years' experience with this breed alone and I think I have as good stock as any one, although my prices are not as high as some. If you want either fowls or eggs write me and I will do my best to please you. C. N. GILBERT, Flint, Mich.

WHITE WYANDOTTES EXCLUSIVELY. Eggs for hatching from large pure white hens, \$2 per 15; \$3 per 30; orders booked now. Eggs after February 15th. Homers from the best strains. H. F. LIETZ, Box 158, Meriden, Conn.

WHITE AND BUFF WYANDOTTES and Black Langshans, winners of 48 prizes at Mt. Gretna, Carlisle, Hagerstown, and Pittsburg. Eggs from winners \$1.50 per 13. Stock for sale. ARMBRUST BROS., Armbrust, Pa.

WHITE WYANDOTTES.—First-class stock. Satisfaction guaranteed. Eggs for hatching, \$2 per 13; \$5 per 40. J. D. BARNES, Wenham, Mass.

\$1.25 EACH. Choice White Wyandotte and Buff Leghorn cockerels, bred from first-prize winners at Pittsburg, Erie, and Titusville shows. Also pairs, trios, etc. Write wants. Satisfaction or no sale. G. W. MAURHOFF, Saxenburg, Pa.

EGGS THAT WILL HATCH from best strains White Wyandottes and Single Comb White Leghorns, \$1.50 per 15; \$5 per 100. Satisfaction guaranteed. W. E. SHOEMAKER, Laceyville, Pa.

HIGH-CLASS WHITE WYANDOTTES, farm raised, large size, and vigorous. My stock has produced many prize winners. This year's matings the best I ever had. Eggs, \$1.50 per 15. H. M. BURR, South Milford, Mass.

HARWOOD'S BUFF WYANDOTTES are from the very best prize-winning strains. I have also purchased entire stock of Boyd's Blue Wyandottes. Circular. W. H. HARWOOD, M. D., Chasm Falls, N. Y.

BUFF WYANDOTTES EXCLUSIVELY.—Piser and Mattison strains. Winners of 22 prizes and specials, at Mt. Gretna, Coatesville, and West Chester, Pa., 1898. Eggs, \$1.50 per 15. H. B. HARK, Paradise, Pa.

WHITE WYANDOTTES, WHITE ROCKS.—Winners, scoring 90 to 94. Breeders selected by Chas. McClave. Stock for sale. Eggs, \$1.50 per 13. Satisfaction guaranteed. Correspondence solicited. C. W. SOUTHWORTH, Dowagiac, Mich.

WHITE WYANDOTTES EXCLUSIVELY. They have the shape, color, and are prolific layers of brown eggs. Best all-around breed. Eggs, \$1.25 per 15; \$5 per 100. R. S. GLEASON, Colebrook, N. H.

WHITE WYANDOTTES EXCLUSIVELY. Standard bred, prolific layers. A fair hatch guaranteed. Eggs, \$1 per 13. GEORGE C. ARMSTRONG, Nyack, N. Y., Box 620.

D MULLEN, Indiana, Pa., Partridge Wyandottes, White Wyandottes, and Golden Penciled Hamburgs.

THE TERRACE POULTRY YARDS. White Wyandottes exclusively. Beauty and utility combined. Winners at the following shows in 1898: Mt. Gretna, Pa., Hagerstown, Md., West Chester, Pa. Eggs, \$2 per 13. ALLEN C. ROBERTS, Spring City, Pa.

WARE SHOW, on my "Silvers" I won 4 firsts 1 third, 5 specials. First-prize hen 92½

weighed 8 lbs., in laying condition. Standard weight birds, dark-egg strain. Eggs, \$2. Stock for sale. R. G. WILLIAMS, Barre, Mass.

STANDARD-BRED WHITE WYANDOTTES. Hardy, vigorous, prolific layers. Eggs, \$1 per setting; \$5 per 100. Pekin Ducks' extra large eggs same price. Some fine stock for sale. HUNSBERGER BROS., South Hatfield, Pa.

HUDSON RIVER POULTRY FARM, Poughkeepsie, N. Y., breeders of prize-winning White and Buff Wyandottes. Eggs from prize matings, \$2 per 15. Incubator eggs, \$5 for 100, from choice stock, good hatch and satisfaction guaranteed. Catalogue free. EDGAR BRIGGS, Manager.

WHITE WYANDOTTES EXCLUSIVELY. Bred from Forsyth and Knapp strains. Farm raised, free range. Brown eggs, \$1 per 15, or \$5 per 100. LETITIA THOMPSON, Penns Park, Pa.

BUFF WYANDOTTES. 12 Premiums at Boston, 1899. Circulars. FIELD & SON, Somers, Conn.

BUFF WYANDOTTES.—Made 38 entries at Madison Square Garden, N. Y., Washington, D. C., Hagerstown, Md., Mt. Gretna, Pa., Poughkeepsie and Middletown, N. Y. Won 20 firsts, 7 seconds, 2 thirds, 3 fourths, 1 fifth, and 11 specials including a 400-egg P. S. Incubator; \$5 Gold State Medal, etc. Eggs, from solid buff birds \$3. Catalogue free. DANIEL L. STAUFFER, Spring City, Pa.

BUSINESS BIRDS. White Wyandottes exclusively. Duston and Knapp Bros. strain. Prolific layers. Eggs, \$2 per setting 15; 3 setting \$5. Circular for the asking. Mention The Feather. RALPH WOODWARD, New Rochelle, N. Y.

QUALITY NOT QUANTITY. Golden and White Wyandottes. Eggs, \$1 per 13. Would exchange Mann's No. 2 Bone Cutter with power attachments for 100-egg Prairie State Incubator. W. B. SANFORD, Manchester, N. H.

EXHIBITION WHITE WYANDOTTES mated for pure white plumage, symmetrical beauty, utility, and vigor, the production of years of careful breeding. Eggs from pens of diffused blood, 2 settings \$5; single setting \$3. Choice pullets and males for sale. Enclose stamp for description and price. PARAGON POULTRY YARDS, Danbury, Conn.

BUFF WYANDOTTES. At Ware, Mass., Jan., '99, highest scoring Buff in show was my first pullet, 94. At Fitchburg, Dec., '98, highest scoring Buff Wyandotte, 94½. Eggs from fine birds, \$2 per 15; \$4.50 per 40. G. W. FELTON, Barre, Mass.

EXTRAORDINARY SIZE AND CORRECT buff color are desirable characteristics of my Buff Wyandotte prize winners. Golden Wyandottes too. Eggs, \$1.50 per 15; \$2.50 per 30. H. M. DOTY, Chatham, N. Y.

WHITE WYANDOTTES EXCLUSIVELY. 98 winnings at Mt. Gretna, 1st cock; West Chester, Pa., 1st pen, 2d hen, 3d cock, 2d cockerel, 3d pullet; Washington, D. C., '99; 1st cockerel, 2d hen. Eggs, and a few choice pullets for sale. J. B. PYLE, Cossart, Pa.

WHITE WYANDOTTE eggs that will hatch prize-winning stock, \$1 per 15. Pure White "Bull Terrier" dog at stud, eligible to registry, fee \$5. F. W. TEMPLE, West Chester, Pa.

FRANK L. GARDNER, Fitchville, Conn., breeder of prize-winning White Wyandottes "Stay White" strain. Eggs from prize matings at \$2 per 15. Incubator eggs, \$5 per 100. Satisfaction guaranteed.

BLACK WYANDOTTES.—The choicest birds of the Wyandotte family. Eggs, \$1.50 per 13, from prize-winning birds. Orders promptly filled. MRS. S. TIMMONS, Malvern, Iowa.

WHITE WYANDOTTES at Boston, '99, in the largest and hottest competition, I won ten regular and special premiums. My birds are white, correct shape, and bred for business. Eggs, \$2 per 15. F. H. FULLER, Box D, Hinsdale, N. H.

MINORCAS

BLACK MINORCAS.—Choicest birds from the flock owned by the late John M. Lown. Garland and Royal strains. Eggs, \$1 per 13. MRS. J. M. LOWN, Bennettsburg, N. Y.

CALUMET STRAIN BLACK MINORCAS are of superior quality, large size, true Minorca shape and color. Bred for exhibition and utility. Eggs, \$2 per 13. FRANK H. GERISH, Haverhill, Mass.

BLACK MINORCAS EXCLUSIVELY. Bred from imported stock. First pen at Boston, '98 and '99. First on eggs, '98 and '99. Eggs, \$2 per 12. GEORGE H. DEXTER, Everett, Mass.

BLACK MINORCAS EXCLUSIVELY, (North, up strain.) Fine, large, vigorous, healthy birds, bred from my Washington prize winners. Stock and eggs for sale in season, good hatch guaranteed. THE FEATHER, one year with egg order. E. D. CROUCH, 1013 G Street S. E., Washington, D. C.

I HAVE PURCHASED the entire stock of Black Minorcas from Wilcox & Son, Wilkes Barre, Pa. Fine birds for sale. Write for prices of eggs and fowls. L. J. WILLIAMS, York, Pa.

ROSE COMB BLACK MINORCAS (Northup strain). My birds scored as high as 93 points at show. Eggs for hatching, \$2 per 13; \$5 per 40. WM. G. HUNTER, Peterboro, N. H.

JOE KRENN, 114 Beecher St., Syracuse, N. Y., breeder of prize-winning Black Minorcas noted for size and color. My Minorcas won at Seneca Poultry show in 1897, out of 3 entries took 1st, 2d, and 3d. Score, 95, 94, 93½. Eggs, \$2 per 13; \$5 per 40.

BELMONT STRAIN BLACK MINORCAS contain the best Minorca blood in the country. They are all standard weight or over, and are extra good in all other points, especially as layers. Eggs at \$1 per 13, and satisfaction guaranteed, or I will refund your money. Write me. O. W. TAYLOR, Tyrone, Blair Co., Pa.

BREEDERS AND SHIPPERS of Champion Black Minorcas. Most fashionable and prize-winning strains in the land. Also Black-tailed Japanese Bantams. Eggs for sale. H. B. GREGORY & SON, Akron, Ohio.

THOMPSON'S MINORCAS—Won at Boston, '99, 5 1sts, 1 special, 2 2ds, 1 3d; at New Haven, 1st on cock, cockerel, hen, and 2d on hen and pen. Also bred Buff Rocks. Catalogue. C. A. THOMPSON, Melrose, Conn.

A GRAND OPPORTUNITY to procure high-class Black and White Minorcas and White Wyandottes. Old and young stock for sale. Eggs in season. GLENN H. JOHNSON, Groton, N. Y.

WHITE MINORCAS. Bred for practical and exhibition purposes. My yards are mated with birds that are large size, grand shape, fine comb, and superb color. Eggs, \$1.50 per 13; \$2.50 per 20. Satisfaction guaranteed. L. H. MORSE, Newark, New York.

S C. BLACK MINORCAS EXCLUSIVELY. Nothing but high-scoring birds in my yards, mated to produce exhibition birds. No stock for sale. Eggs, \$2 per 15, or \$3 per 30. A. G. STULTZ, Sunbury, Ohio.

WHITE MINORCAS and Rose Comb Black Minorca eggs for hatching from choicest matings, \$3 per setting; \$5 per 30. Six Rose Comb cockerels for sale. MRS. J. OSBORNE, Fabius, N. Y.

BLACK MINORCAS (Doane stock) that are not Black Leghorns. I refused \$5 for the cockerel that heads my pens. Females equally good. Silver Wyandottes also. Eggs, \$1.50 per 15; \$3 per 45. MELVIN H. HAILE, Bigelow, N. Y.

MRS. ALICE A. HUNGERFORD, Jamesville, N. Y. White Minorcas exclusively. Fine thoroughbred stock, large size, direct from Mrs. J. G. Osborne's prize-winning stock. Eggs, \$2 per 15; \$3 per 30.

G R. WILLSON & SON., Rome, N. Y., originators and breeders of the Metallic-Green strain of Black Minorcas, great station and heavy weight. Also Buff Rocks, clear hackle and buff to the skin. Send for circular containing prize-winnings and matings of eight grand pens. Eggs, \$2.

LANGSHANS

F C. BEACH, Plain City, O., breeder of Black Langshans exclusively. Eggs, \$1.50 per 13. Birds for sale.

WHITE LANGSHANS. Crystal strain. Fine, large birds, true color and shape. Eggs, \$1 per 13; \$2 per 30. Also a few trios for sale. Satisfaction guaranteed. J. W. TEDRICK, Williamson, Pa.

BLACK LANGSHAN EGGS from my two best pens, \$2 per setting; 3 settings \$5. 7 chicks guaranteed or order duplicated free. My birds lay large, very dark brown eggs, are large and vigorous, and can win a prize or two in hot competition. C. I. DROWNE, Sandown, N. H.

BLACK LANGSHANS.—Cockerels and pullets for sale, bred from first-prize winners at Hagerstown, Washington, Pittsburg, Mt. Gretna, and second at Johnstown, N. Y. Eggs, \$3. GEO. SCHRADE, Sykesville, Md.

WHITE LANGSHANS. At N. Y. '97 and '98, won 5 firsts, 2 seconds, 5 thirds. Eggs, best pens, \$3; others \$2. Also Buff P. Rocks. R. L. BLAIR, Castle Creek, N. Y.

BLACK LANGSHANS and White Plymouth Rocks. Choice strains of both breeds. Eggs for hatching \$1.50 per 13. I have some fine Langshans for sale. **FRANK I. AHERN**, Box 51, Laurel, Md.

3021 EGGS FROM MY PRIZE PEN of large Black Langshans, prince of fowls as winter layers. My way of egg production, and 15 eggs from this pen, \$1. **N. G. CUSHMAN**, Poultry, Vt.

BLACK LANGSHANS EXCLUSIVELY. More than 300 prizes won in the last six years. Choice stock for sale. Eggs, \$2 for 15. Write **J. L. JOHNSON**, the Langshan Man, Sabina, Ohio.

BLACK LANGSHANS.—Farm raised, strong, and healthy. Stock raised from first-prize birds at New York show. Eggs, \$1.50 per 15; \$2.50 per 30. **M. HARVEY IVINS**, Penn Valley, Pa.

BLACK LANGSHANS EXCLUSIVELY. Free range, new blood. Eggs, \$1 per 13. **J. H. BORMANN**, Station M. New York, N. Y.

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BEAUTIFUL COCHIN BANTAMS—Buff or White, at \$2 per pair. **WM. M. CONNERS**, Box A, Weston, Somerset Co., New Jersey.

COCHIN BANTAMS.—Buff, Black, and White. If you are in want of Cochin Bantams write and see what I can do for you. **ROWLAND G. BUFFINTON**, Box 677, Fall River, Mass.

HOW IS THIS? Washington, Hackensack, Elmira, and West Chester, Hartford, Boston, and New York, 30 entries, 34 prizes on Silver Sebright Bantams. Stock for sale. Sell no eggs. **A. C. TREICHLER**, M. D., Elizabethtown, Pa.

AT WASHINGTON, D. C., won 15 prizes on 15 entries, on Golden and Silver Sebrights, Silkies, Bearded and Non-bearded White Polish, Buff, White, Black, Partridge, and Cuckoo Cochins, Brown Red, Red Pyle, and Birchen Game Bantams. No eggs. Stock for sale. **W. W. WALLICK**, York, Pa.

1ST ON SILVER SEBRIGHT PEN at Boston, 1899. We have lots of cream of other varieties. Circular free. My Bantam book 15 cents. New England's Largest Bantam Yards. **W. W. CLOUGH**, Medway, Mass.

BANTAMS, WHITE POLISH, Black-Tailed Japanese, Golden and Silver Sebrights, Black, White, and Buff Pekin, Silver Duckwing, and Pyle Games, Silkies, Black Spanish, and Cornish fowls. No catalogue. **MARK HURD**, Marshall, Mich.

1ST BUFFS, 1st WHITES, 1st SILVERS, 1st GOLDENS, 1st BLACKS, in fact 1st on most every variety of Bantams. I have a few bargains left, also eggs. **W. W. CLOUGH**, Medway, Mass.

B. B. R. GAME BANTAM EGGS for \$2 a setting from prize-winning birds. Satisfaction guaranteed. Winners at Carlisle, York, and Schoharie, New York. Golden Sebright eggs at same price. **WOLFORD BROS.**, Props., Hanover, York Co., Pa.

MY BREEDING YARDS of Buff Cochin Bantams contain only carefully selected birds; even in color, heavily feathered, typical Cochin shape. Eggs, \$2 per setting. Birds for sale. **C. E. ROGERS**, New Market, New Jersey.

WOODCLEFT STRAIN.—Having purchased the entire stock of this most noted strain from Mr. C. S. Powell, I am prepared to offer eggs at only \$2 per 13, or \$3 per 26. Orders booked now. These birds are world beaters, having won at New York, Boston, and Washington. Address, **L. L. LUCAS**, Oil City, Pa.

J. F. KIRKPATRICK'S Buff and Black Cochin Bantams are sure winners. Winners at Mt. Gretna, Trenton, Hagerstown, Washington, New York. To strengthen have purchased 1st N. Y. Buff cockerel. Stock and eggs for sale. Eggs, \$3. **EASTON HEIGHTS POULTRY YARDS**, Easton, Pa.

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POLISH. S. F. Gulliford, Akron, Ohio. Importer and breeder of White Crested Black, Bearded Silver, Bearded Golden, and Bearded Buff Laced Polish, also Silkies of the finest quality. It has been my aim for many years to breed these beautiful fowls to the highest standard of perfection. My show record stands as evidence. Birds for sale at all times and eggs for hatching in season.

CHAS. L. SEELY, Afton, N. Y., the veteran Polish breeder of America, has a few more White Crested Black Polish breeding birds. Single, pairs, or trios. Write for my record of over 50 years breeding Polish. Eggs for hatching.

R. E. SMITH, Afton, N. Y., is prepared to furnish stock and eggs from his famous Gilt-edge strain of White Crested Black Polish, and Buff Rocks. None better. Eggs in season \$2 per 13; \$3 per 26. Prize record and circular free. Write for one.

WHITE CRESTED BLACK POLISH Exclusively. Remember I have the winners at such shows as Chicago, Ill., Cleveland, Ohio, Delaware, Ohio, Sunbury, Ohio, and Columbus (Ohio) State Fair. Stock and eggs for sale. Write wants to-day. If not, why not? **MRS. AUSTIN G. STULTZ**, Sunbury, Ohio.

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HOUDANS AND WHITE HOLLAND TURKEYS. High-class stock, with free range. Houdan eggs, \$1 per 13; \$3 per 40. Turkey eggs, \$2 per 11. **G. A. HOBART**, Chittenango, N. Y.

HOUDANS. "Live and let live" Yards, fine Houdan eggs \$1 per 13 straight. Light Brahma eggs \$1 per 13; \$4 per hundred. **DR. M. J. WHITFORD**, New Market, N. J.

WM. A. WEIS, 70 North Hancock St., Wilkes Barre, Pa., breeder of Houdans that are of standard weight and up to date in shape and markings. My Houdans were winners of 1st and 2d premiums at Washington, Wilkes Barre, Scranton, Plymouth, the great Rochester, and two 2ds at Madison Square Garden, 1898. My Houdans are noted for fine crests, beards, and markings. Eggs, \$2 per 15. Satisfaction guaranteed.

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WHITE FACE BLACK AMERICANS' I have bred them 35 years, hence are Americans. Score at shows 94 to 97. Eggs, \$2 per 13. **JOHN BENNETT**, Sunman, Ripley Co., Ind.

W. F. B. SPANISH.—Prize winners at Cedar Rapids, Iowa, January 21, '99, 2d on cock and 2d on hen. Eggs in season; also Fancy Pigeons for sale. **P. ANDERSON**, Box 221, Marshalltown, Iowa.

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BUFF COCHINS.—Winners at Mt. Gretna, Hanover, West Chester, York, Carlisle, and Hagerstown, in 1898, and are true Cochin shape, heavily feathered, large size, and proper color. Eggs from above winners, \$3 per 15. **ALLEN E. SPANGLER**, Hanover, Pa.

WE have enlarged our plant, and are breeding more and better Buff Cochins than ever. At Hagerstown, '98, we won 1st and 4th cockerels, 1st and 4th pullets, 1st, 2d, and 3d hens, and 2d pen. Not one inferior specimen in our yards. Eggs, \$3 per 13. **ANTIETAM POULTRY YARDS**, A. W. RUDY & SON, Hagerstown, Maryland.

MASSIVE COCHINS, solid buff, heavy feathering, standard shape, wonderful layers. 15 eggs \$1.25. Good hatch guaranteed, distance disregarded. Worth twice the money. Write **LOUIS LUNDBERG**, 505 Fifth Street, Rockford, Illinois.

BLACK COCHINS. Won 4 prizes on 4 entries at New York show 1899. Eggs, \$2. A few very fine Buff Cochins at \$1.50 each. Eggs, \$1.25. **WHIPPANY FARM**, Morristown, N. J.

BUFF COCHINS.—A few choice cockerels for sale at \$3 each. Eggs, \$2 per 13. **T. J. O'BRIEN**, 2616 Bedford Ave., Pittsburg, Pa.

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OUR BLACK JAVAS.—Won five 1st at Boston, 1899. Circulars. **FIELD & SON**, Somers, Conn.

ROYAL BLACK JAVAS. Eggs, \$2 per 15. Still some fine stock left. Write your wants. **W. W. SUTHERLAND**, Bushfield, Pa.

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MOTTLED ANCONAS, handsome birds, great layers. 15 Eggs \$2. Single Comb Brown Leghorns, 15 eggs \$1. **A. GORDON**, 209 Chestnut St., Towanda, Pa.

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RHODE ISLAND REDS. These handsome fowls are prolific layers of large brown eggs. Rose or Single Comb. Eggs, \$1 per 13; \$2 per 30. **A. E. CUMMINGS**, Hudson, New Hampshire.

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CORNISH INDIAN GAMES, Carpenter's prize-winning strain. The Gentleman's Fowl. Stock and eggs for sale. Also breed first-class Black Minorcas, Barred Plymouth Rocks and Muscovy Ducks. **H. M. CARPENTER**, Sing Sing, N. Y.

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ANDALUSIANS AND WYANDOTTES. Blue Andalusians, great layers, large eggs, non-sitters. White Wyandottes, prolific layers of large brown eggs. \$1.50 per 13. **S. M. FLINT**, Burlington, Vt.

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LONG-TAILED JAPANESE PHOENIX fowls. Cock's tail 3 feet long, saddle-feathers 16 inches, beautiful carriage, gentle disposition, easily raised. Pairs and trios mated not related. Eggs, \$3 per setting. **S. J. EGGER**, Woodsfield, Ohio.

RING NECK MONGOLIAN OR ENGLISH Pheasants. Birds and eggs for sale. Eggs, \$2 per 15; can hatch under chicken hens. **MARTIN DIETRICH**, Box #93, Fulton, N. Y.

FOR SALE.—One trio of young Long-Tailed Phoenix Fowls, cock's tail over 36 inches long. They are the true type. \$10 will buy them and no less. **WM. KASTNER**, 127 Bartges St., Akron, Ohio.

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DORKINGS.—Colored, White, and Silver Gray. Eggs, \$1 per 13. Colored pen headed by imported male. A few fine colored cockerels for sale. **MISS LIZZIE GOODELL**, Canastota, N. Y.

SILVER GRAY DORKINGS EXCLUSIVELY. Won eleven prizes at Boston and New York, including four firsts and specials. Eggs from three grand pens. \$2.50 per 13; \$4 per 26. **WATSON WESTFALL**, Box 41, Sayre, Pa.

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CLOSING OUT.—My entire lot of Golden Spangled Hamburgs. Some with score-cards at half price. Eggs, while chickens last, 30 for \$1.50. **JAMES SCHRUBB**, Urbana, O.

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150 BRONZE TURKEYS, bred by my 45 and 47 lb. toms, and 22 to 33 lb. hens. For great size, grand plumage, and form my birds have no equal. Sure winners and elegant breeders at fair prices. Stamp for reply. **GEO. WOLF**, Seneca Falls, N. Y.

WHITE HOLLAND AND M. BRONZE.—100 choice birds for breeding and exhibition direct from prize-winning toms and hens. Birds, \$2 to \$5. Eggs, \$1.75 per setting. **C. ADELL KAYNER & CO.**, Lockport, N. Y.

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AMERICAN DOMINIKES.—My Dominiques are well marked, good size, and bred for business, hardy, and extra winter layers. Eggs, \$1 per 15. **C. E. HATCH**, Matteawan, Dutchess Co., New York.

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TO INTRODUCE MY STOCK of extra nice Pekin Ducks, I will offer eggs \$1 per 13, warranted strictly fresh. **MRS. LILLIE SHARROW**, Chatton, Adams Co., Ill.

HUDSON RIVER POULTRY FARM, Poughkeepsie, N. Y. Eggs from prize-winning Pekin Ducks, \$1 per 12; \$6 per 100; \$50 per 1,000. 350 breeders on hand. Eggs running 90 per cent fertile in February. Catalogue free. **EDGAR BRIGGS**, Mgr.

IMPERIAL PEKIN DUCKS. Eggs for hatching, 11 for \$1.50; 22 for \$2.75. Address **E. A. ALDHIZER**, New Hope, Va.

PEKIN DUCK EGGS, from prize stock. Ducks are large and heavy layers. Pens headed by prize drakes. Eggs, \$1.50 per 13. **P. ANTHONY & SON**, Great Barrington, Mass.

FAUQUIER POULTRY YARDS, Bealeton, Virginia, breed exclusively Imperial Pekin Ducks. First prize young drake Washington show, Jan. '99. Satisfaction and minimum express charge guaranteed. Postal gets circular.

EGGS FOR HATCHING from choice Pekin Ducks, \$1.50 per 12; \$7 per 100. **MRS. LENA CARTER**, L. Box 31, Alexandria, Va.

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CHAMBERSCHMIDT, S. Buffalo, N. Y., headquarters for large Belgian Hares, bred up to standard in size, color and weight. 40 breeding Bucks for sale, cheap, if taken soon, for want of room.

BELGIAN HARES.—I have for sale a fine lot of Belgian Hares, standard size and color, at reasonable prices. Also eggs from Pekin Ducks. Stock thrifty. Correspondence solicited. Address, W. W. McMEEKEN, Mansfield, Ohio.

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G. A. FICK, 1300 N. Washington Street, Baltimore, Md., breeder of prize winners, Magpies and Swallows in all colors. Prices reasonable considering quality of stock.

25 PAIRS WHITE FANTAILS at \$5 and upwards a pair, bred from imported and best American strains. **E. A. HOLBROOK**, Winchester, Mass.

FOR SALE, EXHIBITION BIRDS in Pouters, Carriers, Blondinettes, Satinets, Silverettes, Turbits, Frillbacks, Swallows, Snells, Archangels, Dragoons, Tumblers, Moorcaps, Magpies, Owls, Nuns, Bruner Pouters, and Black Baldhead Tumblers. Satisfaction guaranteed. **J. H. MEHRING**, Littlestown, Pa.

WHITE POUTERS 2 pairs at \$3 per pair. 2 hens \$1.50 each. **Buttle's strain**; 3 pairs Yellow Jacobins, no better, \$3 per pair; Magpies and Dragoons, \$1 per pair; Homers 50c per pair. **J. W. TEDRICK**, Williamson, Pa.

HIGH-CLASS BLUE FANTAILS. The Leonard strain of Blue Fantails are noted for their beautiful style and grand shaped bodies. Pairs and odd birds at reasonable prices. 2-cent stamp for prices. **A. D. LEONARD**, Mansfield, Mass.

46 PRIZES at Fredonia, Rochester, Elmira, on Pouters, Jacobins, Tumblers, White and Red Dragoons. White Rocks, Golden Wyandottes. Eggs and stock for sale at all times. **MATHIAS WOELFLE**, Silver Creek, N. Y. Stamp for reply.

19 HIGH-CLASS TURBITS, \$20; worth double the price asked. All colors; all related to prize-winners at New York, Boston, Louisville, and Baltimore. **LAWRENCE H. JONES**, Rome, N. Y.

FOR SALE.—Homers and Tumblers in all colors. Also Fantails, Magpies, Pouters, Jacobins. My prices are right and birds first class. **LARRY F. GOLDY**, East Third Street, Williamsport, Pa.

SPAIN has yielded to America's demands and the Philippines are gradually yielding. **CHAS. W. MATTHIAS**, of No. 1002 Lincoln St., Milton, Pa., has yielded to the people's demands for reduced prices on Fancy Pigeons, and the prices are lower. Try me.

FOR SALE CHEAP all kinds and colors of Fancy Pigeons, single or double, 500 to select from. Outside Tumblers, 75c. and \$1 a pair; Homers, 75c. a pair. Money back if dissatisfied. Stamp for reply. **SOMERSET PIGEON LOFTS**, Somerset, Mass.

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MOUNTAINSIDE LOFT is offering for sale some of the best Homers in this country (50 pairs); also Pouters and hen pigeons, will sell them cheap to a quick buyer. **A. F. SPANGLER**, East Orange, N. J.

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VERDEMONT HOMING LOFTS.—A choice lot of speedy and reliable trained Homers for sale at \$1 per pair while they last. Bred from record birds from a number of the most noted strains. Pedigrees given and satisfaction guaranteed. **C. E. BIRELY**, Ladiesburg, Md.

HOMING PIGEONS mated for flying or squab breeding, \$1 and \$2 per pair. Books on Breeding and Training 25 cents (stamp); Money in Squabs, 20 cents; Pigeon Queries, 25 cents; Dogs, Rabbits, Cage Birds, Poultry, 10 cents each. Seamless and open aluminum leg bands, pedigree blanks and cards. Catalogues free. **F. L. HOOPER**, Station D, Baltimore, Md.

AS I AM ABOUT TO MOVE I will offer my entire lot of Homing Pigeons, 16 pairs. Most of the birds have records from 200 to 500 miles. **CHARLES BUCKINGHAM**, Seymour, Conn.

HOMING PIGEONS.—Rare opportunity to secure some valuable Homing Pigeons at moderate prices, occasioned by my change of residence. Correspondence desired, inclosing stamp for reply, if you mean business. **THE WESTENHOUSE COTE**, Washington, D. C.

HOMING PIGEONS.—I have a number of fine cocks in Blue and Black Chequer and several pairs of mated birds (excellent breeders) that I will dispose of at reasonable prices. The above birds are pure-blooded Homers, and bred from reliable stock. Also a limited number of youngsters bred from the same strain. **G. R. BAYLE**, 1643 Race St., Philadelphia, Pa.

FINE PEDIGREED HOMING PIGEONS cheap with records ranging from 100 to 912 miles. Best blood procurable. Certificates of flight furnished. Also Hounds. Satisfaction guaranteed. For particulars address, **HORACE FORRY**, York, Pa.

MISCELLANEOUS

EGGS FROM FANCY SHOW BIRDS. Single and Rose Comb White Leghorns, Single Comb Brown and Buff Leghorns, White Rocks, White Guineas and Pekin Ducks, \$1 per 13; \$6 per 100. White and Golden Wyandottes, English Buff Cochins and Partridge Cochins, \$1.50 per 13. Circular on application. **P. L. DWIGHT**, De Ruyter, N. Y.

AS GOOD AS THE BEST, 13 for \$1.50. Bred from prize-winning Buff and Barred Rocks, Buff and White Wyandottes, Buff, Brown, and White Leghorns. **S. B. MASON'S**, Maytown, Pa.

LOCUST HILL POULTRY YARDS. Barred and White Plymouth Rocks, Silver Laced Wyandottes. Eggs for setting, \$1 for 15. Italian Bees and Queens for sale. **MRS. A. A. SIMPSON**, Swarts, Pa.

SHERWOODS—the Ideal Fowl—for fancier farmer, or market, the hardiest and best general purpose fowl ever introduced. My stock is from originator of breed, therefore pure. Prize winners at Hamilton. Eggs in season. Circular free. **DR. CHARLES B. TURNER**, Snickersville, Va.

J. R. PIPER, JR., 10 Market St., Morristown, N. J.—Prince of America's Light Brahmas and Silver Laced Wyandottes. Piper's Celebrated Games of many varieties, also other kinds of stock for sale. Eggs, \$2 and \$3 per setting. Write.

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If fed on **F. P. C. Chick Manna**. It is easily digested, and makes them grow, and prevents Leg Weakness and other Diseases common to little chicks. You can raise almost 100 per cent of your hatch, which you can not do if you feed anything else. Price, 1 lb. 10c.; 5 lbs. 40c.; 15 lbs. \$1.10. Order at once and save your chicks. Our new 1899 illustrated catalogue free. **EXCELSIOR WIRE & POULTRY SUPPLY CO.**, 28 Vesey St., N. Y.

DR. H. D. KNIGHT, Lancaster, Pa., breeder of (Wyckoff strain) S. C. W. Leghorns and choice B. P. Rocks. Eggs in season. Prices reasonable.

BUFF WYANDOTTES, one of the best strains. Pit Games that are true stock, and eggs reasonable. Homing and fancy pigeons, Angora rabbits, Belgian hares, guinea pigs, all kinds. **ALMON KIBBE**, Mayville, N. Y.

WHITE WYANDOTTES bred in line ten years. Superior Rose Comb White Leghorns. Eggs, \$1.50. Ewald's, Hoskins' and Caseday's strains of Jacobins. **J. PERRIN WILSON**, Grand Rapids, Mich.

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BARRED and WHITE PLYMOUTH ROCKS. Light and Dark Brahmas, Buff and Partridge Cochins, White Faced Black Spanish-English Red Caps, and Silver Gray Dorkings. Are winners wherever shown—Hagerstown, 1898, Washington, 1899. My birds were in strong competition, and will win in all classes. 2-cent stamp for large catalogue. Stock and eggs for sale at all times. Address, **WESTERN MARYLAND**

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with the Excelsior Incubator. Thousands in successful operation. Simple, perfect, self-regulating. Lowest priced 1st-class hatcher made.

EXCELSIOR INCUBATOR is guaranteed to hatch a larger percentage of fertile eggs at less cost than any other hatcher.

Geo. H. Stahl, 114 to 122 S. 6th St., Quincy, Ill.

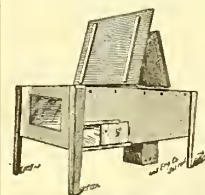
E. F. TIFFANY, BROOKLYN, PA.

Breeder and shipper of prize-winning Light Brahmas, Bar and White Rocks, W. C. B. Polish, R. C. W. Leghorns, B. B. R. G. Bantams, White Guineas, Pekin Ducks, Pointer dogs, and Ferrets. Stock and eggs for sale. Satisfaction guaranteed or money back every time.

TRY OUR FISH MEAL FOR POULTRY.

This is fresh Fish, cooked and pressed, dried in the sun, then ground to a meal. Write for price and sample. Agents wanted.

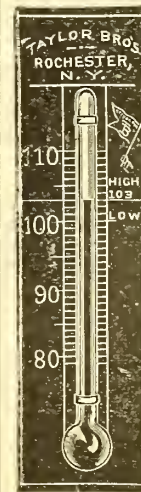
BYRON BILLINGS, Mystic, Conn.



THE OLD Homestead Brooder

Will care for 100 Chicks until they are old enough to go to the roost; the simplest, cheapest, and best Brooder made. Circular free.

L. BROWN,
Sturbridge, Mass.



THE BEST INCUBATOR

often fails in its purpose because of inaccurate regulation of heat. For 15 years we have made a specialty of incubator thermometers that are unexcelled for accuracy and sensitiveness. A guaranteed thermometer sent by express, prepaid, for 75c.

3 for \$1.50.

Taylor Bros. Company,

No. 35 Hill Street, Rochester, N. Y.



1st as Cock at Toronto International Show, 1899.

1882.

Barred Plymouth Rocks.

Remember we are headquarters.

That our strain is the foundation of a large share of the leading breeders of to-day. We have a prize record equalled by few and excelled by none, a choice lot of birds for sale. Eggs from prize matings, \$4 per 13; \$7 per 26; \$9 per 39. Circular free.

Office of R. H. TULLIS, M. D.

COLUMBIANA, OHIO.

Mr. J. H. THOMPSON, JR.,

DEAR SIR: I exhibited 6 birds at our late show hatched from the eggs purchased of you, they scored 93, 93, 92, 91½, 90½, 90½. All agreed with me that I did well, and that my display was a good advertisement for your stock. I enclose score cards and samples of feathers. Kindly advise me as to mating. Thanking you for fair dealing, I am,

Yours truly, R. H. TULLIS.

J. H. THOMPSON, JR.,
Box 98, Patterson, New York.

1899.

CHICK MANNA



Makes a certainty of growing chicks. If you feed it according to directions you can

RAISE EVERY CHICK YOU HATCH.

It Makes 'em Grow

because it regulates the bowels, promotes good health, begets strong constitution and produces rapid development. Fully endorsed by the thousands who use it. You will be its friend after one brief trial.

Price of Chick Manna: 1 lb. package 10c; by mail 25c. 5 lb. package 40c. 60 lb. case, bulk, \$4.20. Liberal discount to dealers on case lots.

POULTRY SUPPLIES

of every kind and for all conditions and requirements in our illustrated special catalogue. Mailed free to any address.

Johnson & Stokes, 217 and 219 Market St. PHILADELPHIA, PA.

LINWOOD POULTRY YARDS

Established in 1874.

Chas. McClave, Owner, Box A, New London, O.

Veteran breeder of prize-winning Black Minorcas, P. Rocks, L. Brahmas, P. Cochins, Langshans, Leghorns, Wyandottes, Polish, Bantams, Bronze Turkeys, Geese and Ducks. Over 3,000 prizes won by my birds. Hundreds of choice birds for sale at all times. Prices reasonable. Send for fine catalogue telling all about my birds. All stock farm grown, strong, vigorous and healthy. Low rates by express, prompt service, best quality and satisfaction to all.

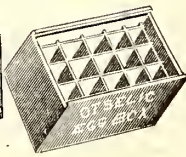
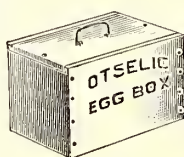
...OTSELIC POULTRY YARDS...

W. A. SMITH, Proprietor.

Breeder of Fancy Poultry and Pet Stock. I also manufacture Egg Boxes.

My prices for '99 as follows:

| | per doz. | per 100. |
|-------------|----------|----------|
| 15 Egg Size | \$1.25 | \$8.00 |
| 30 " | 1.60 | 11.00 |
| 45 " | 1.95 | 14.00 |
| 60 " | 2.50 | 17.00 |
| 75 " | 2.65 | 20.00 |
| 100 " | 3.40 | 25.00 |



This is the Safest, Neatest, and Best Egg Box on the Market.

Also Hard Wood Rods for Show Coops.

| 3/8 in. diam't'r. | 1/2 in. diam't'r. |
|-------------------|-------------------|
| 2 ft lg, 45c 100 | 2 ft lg, 50c 100 |
| 3 " 55c 100 | 3 " 60c 100 |
| 4 " 65c 100 | 4 " 70c 100 |
| 5 " 75c 100 | 5 " 80c 100 |

EGGS FOR HATCHING:

\$1 per 15; \$6 per 100. Golden and Silver Wyandottes, White and Black Minorcas, S. C. White and Brown Leghorns, R. C. White and Brown Leghorns, Anconas, Black and White Hamburgs, Buff, White, and Black Pekin Bantams, and Booted White Bantams, Silver Duckwing Leghorns, Pekin and Rouen Ducks' eggs, \$1 per 11. PET STOCK—Young Belgian Hares, \$2 a pair; young White Angora Rabbits, \$2; young Himalaya Rabbits, \$3; young White English Rabbits, \$1; Guinea Pigs, \$1; Abyssinian Pigs, \$2; Peruvian Pigs, \$3. Address, W. A. SMITH, Whitney's Point, N. Y.

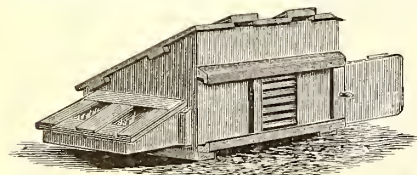
Arnold's Buff Leghorns..

The Oldest and Best Strain in America.

253 PRIZES SINCE 1890.

At Crystal Palace, England, New York, Boston, Washington, and Hagerstown. Eggs from our best matings (and we believe the best in the world), \$5 per 15; \$9 per 30; \$12 per 45. Eggs from other fine yards, \$2 per 15. We guarantee 10 chicks to each setting. Send for circular to

AUG. D. ARNOLD, Box 78 A, Dillsburg, Pa.



"THE HOFF PATENT GOOP"

For a hen and her brood, saves food, labor, etc.; defies all nocturnal enemies, and is the best coop ever used. No agents now, and prices reduced.

1 coop \$3.50; 3 coops \$3.25 each; 5 coops \$3 each; 10 coops and upwards \$2.75 each.

Send for descriptive circular.

W. R. HOFF, Owner and Patentee,
Rider P. O., Baltimore Co., Md.

WYANDOTTES

My record at Rochester, 1897-98-99, Mt. Gretna, 1897, Elmira, 1899, proves their quality.

You can not do better than to place your order with me for your eggs, and I will assure you satisfaction. Prices, \$3 per 13; \$5 per 26. Send for circular for 1899.

WM. C. KLEE,

278 Meigs Street,

Rochester, N. Y.

Sec'y and Treas. of American Buff Wyandotte Club.

BUFF PLYMOUTH ROCKS

My Rocks are from the best strains and are true Rock shape. Won at Rochester, 1899.

MERIT MAKES THEM FAMOUS!

DUSTON'S

White Wyandottes

At Boston, '99, added lustre to their already famous winnings. He won 1st and 2d cocks, 1st cockerel, 2d pullet, 3d hen, or in all 24 Regular and Special Prizes, including special for

Best 5 Cockerels, Best Cock and 4 Hens, and Silver Cup for Largest and Best Display.

More prizes than any 4 other exhibitors together, and this after furnishing winners for our big shows.

I have mated up the finest breeding-pens I have ever owned and am looking for some grand results.

FOR BEST EGGS

I get \$3 per set; 4 sets \$10; or \$15 in hundred lots.

ARTHUR G. DUSTON,

Box A, Marlboro, Mass.

Letter of Interest....

To all prospective buyers of EGGS FOR HATCHING. Read it. Then come and see us and our Stock, together with America's Greatest Poultry Farm. Visitors welcome.

S. B. CORBY, Mgr.,
Plainfield Poultry Farm Co.,
Plainfield, N. J.

Munsey, N. Y., Feb. 3d, 1899.

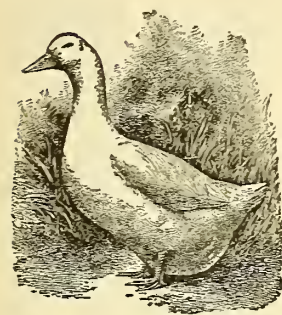
DEAR SIR: After two years of almost constant business dealings with your company, it gives me pleasure to state that after buying large quantities of eggs from almost all the noted breeders in this country, I have obtained most satisfactory results from the eggs purchased from you. Many of the chicks produced from your eggs I would not hesitate to class with any of the prize winners at the Madison Square Garden, New York show, now in progress. As to their laying qualifications, I firmly believe you have in your possession the most prolific laying strains in this country to-day. I desire to thank you for your most liberal methods of doing business, and for the prompt attention given my orders, and, as a proof of my appreciation, I herewith request that you ship me five hundred more W. Wyandotte eggs and three thousand Pekin Duck eggs at the prices quoted.

Wishing your mammoth farm a continuance of the popularity which you are now enjoying, I remain,

Yours very truly,

Overlook Poultry Farm.

C. S. TIEDEMANN.



WHITE WYANDOTTES, WHITE PLYMOUTH ROCKS,
BARRED PLYMOUTH ROCKS, S. C. WHITE LEGHORNS,
MAMMOTH PEKIN DUCKS.

Eggs that will hatch. We guarantee it.

Circular free. Large catalogue 20 cents in stamps or silver.

Plainfield Poultry Farm Co.,

S. B. CORBY, Manager.

PLAINFIELD, N. J.

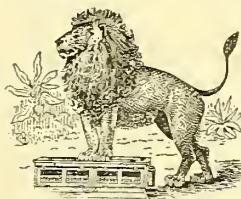
The Two Monarchs....

Of the two, the MONARCH INCUBATOR is the better, because it is a practical, successful machine, and one that will give greater satisfaction than any other on the market.

All the large New England poultry growers use them, many firms using from 15 to 25 of our 600-egg size. More than 1,000 barrels of dressed poultry shipped to market each season, within a radius of a few miles of our factory, all hatched in "Monarch" Incubators.

Send a 2-cent stamp for illustrated catalogue.

JAMES RANKIN, South Easton, Mass.



IF YOU HAVE

Birds, Eggs, or Poultry Supplies For Sale try an advertisement in THE FEATHER.



AT NEWBURG, N. Y., JANUARY, 1899.

GRAND BREEDING BIRDS AT LOW PRICES.

EGGS, \$3 per 13.

Owing to removal to White Plains, N. Y., in April, surplus stock will be sold at reduced prices. Write for them. Address all orders and letters to

H. T. BROWN, Wallkill, N. Y.

Lynnhurst Poultry Yards,

THOS. C. ALLEN, J. D. NEVIUS,
Breeders and Importers of

Buff, Partridge, White,
and Black Cochins,
Cochin and Japanese
Bantams.



IF THE best is none too good and we certainly believe this then why not buy fowls and eggs where you can get the best? We believe we can furnish them, but if you doubt it then buy where you are sure of getting the best. Our birds do not all score from 94 to 97½ points we wish they did nor will they produce only prize winners. Our records in the show-room the past five years may not prove the superiority of our stock, but who can show a better? A 2-cent stamp with your name and address plainly written and sent us will bring you our beautifully illustrated catalogue and price list, giving in detail when and where the following prizes were won, viz: 346 firsts, 88 seconds, 86 thirds, 49 fourths, and over 50 specials. We want your patronage and will in all cases give you entire satisfaction.

LYNNHURST POULTRY YARDS,

GLASSBORO, N. J.

Address all communications to

J. D. NEVIUS, 403 Provident Bldg.,
Philadelphia, Pa.

Minorca Poultry Yards.

Leghorns and Minorcas a specialty. Birds sure to win. Eggs and stock for sale at all times. R. C. Brown Leghorns, \$1.50 per 15. B. Minorcas, \$2 per 15. Address,

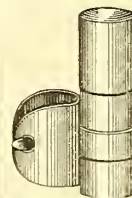
W. P. BAVINGTON, Wilna, Md.

The National Message Holder...

(PATENTED)

FOR HOMING PIGEONS,

Is the best and only thing invented that will carry a message safely.



It does not come off; does not impede the flight of the bird; can be worn over and over again; is water-tight, and weighs only ten grains; can be fastened and unfastened in a second; saves money, time, and worry; can be used in races, and saves telegrams from liberators, who send message in Holder; is endorsed by the U. S. Government, and all prominent flyers of pigeons; is a marvel of perfection, and just the thing needed by all breeders and flyers of Homing Pigeons in races, business, and messenger work. Price of Single Holders, 15 cents each prepaid. In lots of ten or more, 12½ cents each prepaid. National Messenger Pigeon Service Blanks, in books of 50 blanks, 25 cents each; in books of 100 blanks, 35 cents each. The blanks are made especially for these Holders. All orders and remittances should be made payable to

GEORGE E. HOWARD & CO.,

SOLE AGENTS,

S. W. Cor. 8th and H Sts. N. W., Wash., D. C.

S. C. BROWN LEGHORNS.

Large, vigorous, and farm raised. At the late Washington, D. C. show on twelve entries out of forty-five, 1 won more money than all competitors, winning 1, 2, and 3 cockerel, 1 and 2 pullet, 2 cock, 2 and 5 hen, 3 specials, and Prairie State Incubator for best display of Leghorns, any variety. Stock for sale. Eggs, \$2 per 13.

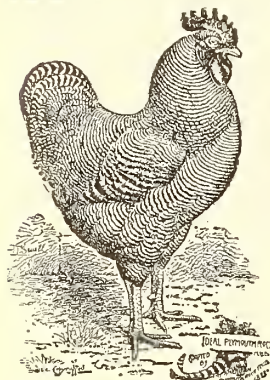
WM. H. BARKSDALE, Falls Church, Va.

BLANTON'S BLACK MINORCAS.

BARRED PLYMOUTH ROCKS, ...WHITE WYANDOTTES...

Winners at Marlboro, Md., Hamilton, Va., Washington, D. C.
Eggs, \$2 per setting. Orders promptly filled.

CHAS. L. BLANTON, Falls Church, Va.



..PRIZE WINNERS.. Barred Plymouth Rocks.

Hawkins' and Uplands' strains.

PEKIN DUCKS,

Pollard's and Newman's strains.

Reduced Prices.

Order Now.

Griffith & Turner Co.,

205 N. Paca Street,

Baltimore, Md.

ALGIE S. TARBOX.

EBEN S. TARBOX.

NORTH SIDE POULTRY YARDS, YORKVILLE, ILL.

~~~~~ A. & E. TARBOX, ~~~~~  
Breeders of

## ...SILVER WYANDOTTES EXCLUSIVELY...

Stock For Sale at all times.

Exhibition Stock a Specialty.

**We do not sell Eggs for Hatching.**

At the Chicago show we won on Silver Wyandottes: 1st, 3d, and 4th cocks, 1st and 4th hens, 1st and 4th cockerels, 2d pullet, 2d and 3d pens. Also highest bird in class. Buff Wyandottes, 3d cock, 4th hen, 1st pul., 3d pen. This with our record of 3 firsts at the World's Fair, and silver cups, and more than half of the regular prizes at the Missouri State and Mid-Continental shows, also winners at the Boston show of '98, proves that our birds are second to none. Yearlings for sale at reduced prices for the next 30 days; also a choice lot of young stock. Write your wants. Mention THE FEATHER.



## The Bantam and S.C.B. Leghorn Breeder

Of 25 Years' Experience,

Offers you Eggs and Stock from Silver and Golden Sebrights, Black and White Cochins, Bearded and Plain White Polish, and Black R. Game Bantams. High-class S. C. Brown Leghorns, Buff Laced, W. C. Black, Golden, Silver, and White Polish. Eggs, \$3 per 13; except Bearded White Polish Bantams, \$10 per 13.

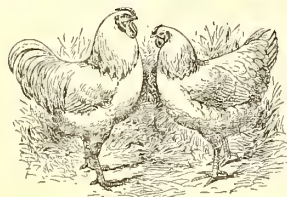
## Debonair-Adirondack Kennels,

English Beagle Hounds and Cocker Spaniels (Red and Black). All our Beagles are hunters. Many of them are prize winners. All our Cocker dogs are prize winners or are bred from winners. 5 grand Beagle dogs, and 5 superb Cocker dogs at stud. Address,

F. B. ZIMMER & CO.,

4112 South Main Street, Gloversville, N. Y.

## Here's to Winners!



Townsend is selling them at way down figures. He has on hand more than he can use this season and for that reason he is making a sacrifice sale of his prime birds.

## WHITE WYANDOTTES

From the best blood in America. Besides Superior Buff, Black, and Partridge Cochins, Barred and White Plymouth Rocks, Langshans, Javas, and American Dominiques. Circulars free. Stamp for reply.

EGGS, \$1 per Setting.

CHAS. C. TOWNSEND, Route 3, Greenbank, West Chester, Pa.

# For Birds And Eggs

## Come to Headquarters!

MY Breeding Yards are better this year than ever before, they are mated to produce the best results. You know my past record, as well as those of my customers. Stock and eggs from the following varieties:

Light Brahmas,  
Dark Brahmas,  
Barred Plymouth Rocks,  
White Plymouth Rocks,  
Silver Laced Wyandottes,  
White Cochins,  
Buff Cochins,  
Golden Sebright Bantams,  
Buff Cochins Bantams,  
Black Cochins Bantams.

Large illustrated descriptive circular and price list free. Send for one.

PHILANDER WILLIAMS,

TAUNTON, MASS.

## Barred P. Rocks Exclusively.

America's Best Strain.

Won at the great Meadville, Pa. show—1st pullet 93, 2d 92½, 3d 92¼; 1st cock 91; 1st pen. Eggs from this strain of prize winners, \$1.50 per setting of 15 eggs. Also cockerels for sale.

J. BYRON HUMES, Venango, Pa.

## WHITE PLYMOUTH ROCKS, WHITE WYANDOTTES.

These grand and noble fowls are fast coming to the front. Their beauty and utility are acknowledged by all. Stock for sale. Eggs, \$1.50 per 13. Prices low. Circulars free.

T. F. MILLER,

Box H, Mattituck, N. Y.



## Biltmore Poultry Yards....

DO YOU WANT WINNERS?

170 Prizes won last season at National Poultry Show, N. C. State Fair, and Piedmont Poultry Show.

Grand lot of show birds and breeding stock bred from the winners, now for sale at moderate prices.

Light Brahmas, Buff Cochins, Black Langshans, Cornish Indian Games, Black Minorcas, Barred and White Plymouth Rocks, White, Silver, and Golden Wyandottes, White and Brown Leghorns, Bronze Turkeys, Pekin Ducks, Toulouse Geese.

Eggs for hatching. Write for wants.

Biltmore Farms,

BILTMORE, N. C.



# Did It Win The Country.... Barred Plymouth Rocks



First-Price Cock at New York.

of our breeding in the hands of customers the past season?

## WELL, DIDN'T IT

if size and number of shows are counted? From north, east, south and west, both from eggs hatched and stock sold, come the reports of first winnings and at the largest shows. We give the following:—At twenty-two exhibitions our breeding won twenty-two first prizes and our strains won firsts at eight others, with many shows yet to hear from. Stock hatched from eggs we sold took first prizes at some of the largest shows, scoring to 95 points. For one bird, \$100 was refused; \$125 was offered for another, and a third was held at \$100: all bred by us. **More First-Place New York Winning Males, By Far, Have Been Produced in Our Yards Since 1889 Than in Those of Any Other Breeder....**

These and other winnings show the immense value of our producing lines, and this year we hope to make them better even than ever. We have beaten everyone each time we have exhibited at New York shows. Of our fifty winners there, all were of our breeding except one—that one was our strain. **EGGS FOR HATCHING** from some of the best matings we ever put up. \$5 per 13; \$9 per 26; \$12 per 39; \$16 per 52. **Grand Breeding and Exhibition Stock for sale.** Carefully mated trios and pens a specialty now. Special prices on large numbers. Illustrated circular free.

**BRADLEY BROS., Box 900, Lee, Mass.**



THE FIVE LEADERS.

## Queen City Poultry Yards.

Breeding Stock, Show Birds, and Eggs for sale at all times. **PRICES RIGHT. CATALOGUE FREE.**

W. P. ROCKS  
S. C. W. LEGHORNS  
LIGHT BRAHMS  
S. S. HAMBURGS  
W. C. B. POLISH

17 entries, 12 1sts, 3 2ds,  
and 2 3ds, at the recent  
Elmira show.

Thoroughbred.  
High-Class.

F. L. LANDON,  
P. O. Box 135,  
ELMIRA, N. Y.

A LARGE QUANTITY OF YOUNG STOCK FOR SALE CHEAP.

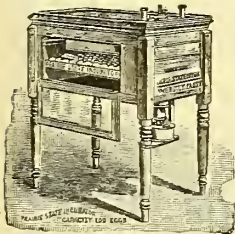
## THE BUSINESS HEN

WHITE WYANDOTTES, BARRED PLYMOUTH ROCKS, BUFF WYANDOTTES.  
Bred for eggs and meat.

**1st** On BROILERS. "Plymouth Rock, Wyandottes, or Dorkings." **2d** On BROILERS. "Any breed" at Boston Show.  
Eggs, \$1.50 per setting. "Incubator" eggs, \$5 per 100. Stock in season. **DORSET SHEEP.**

**GREEN RIDGE FARM.**

**WALTER WATSON, Salem, Va.**



**EDWARD S. SCHMID,**  
DEALER IN  
Fancy Fowls, Birds, Pet Animals, Poultry Supplies,  
712 Twelfth Street Northwest,  
WASHINGTON, D. C.

SOLE AGENT FOR D. C. FOR  
The Prairie State Incubators and Brooders,  
Bone Grinding Machines, etc. Send for my free Illustrated Catalogue.

## The Home of the S. G. W. Leghorn.

There is nothing better than

## POWERS' LEGHORNS,

For laying machines; they lay in season, and out of season.

At Clinton (Mass.) show on an entry of 10 birds, 6 first prizes, 3 second, 1 third, and a special.

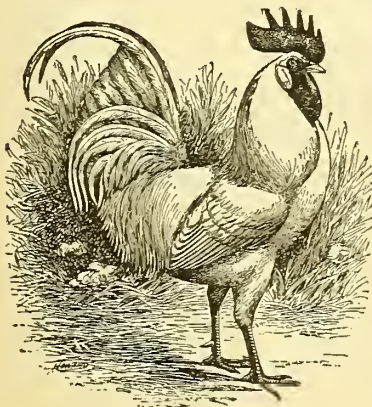
At Fitchburg show on entry of seven different birds, 1 won 5 firsts, 2 seconds, 3 specials, and a pen scoring 186½.

## EGGS FOR HATCHING....

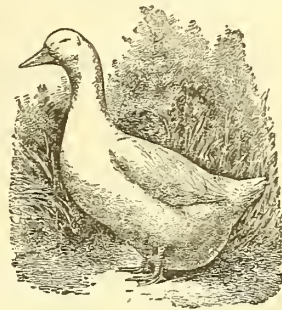
\$2 per 13; \$3 per 26; \$4 per 39; \$5 per 52; \$6 per 65; \$6.50 per 78; \$7 per 91; \$8 per 104.

No birds to breed from less than 90 to 95 Standard points.

**F. G. POWERS,**  
Sterling, Mass.



## Imperial Pekins —AT— Maple Farm Duck Yards.



2,500 breeding birds on hand, all carefully selected from many thousands. The largest and best birds on this continent. Birds not akin, from forty different yards. Eggs in season, fertility guaranteed. Order early to secure birds. My book "Natural and Artificial Duck Culture" with each order for birds or eggs. See what the Boston marketmen say about our birds. Send for illustrated catalogue. The Monarch Incubator still ahead. Send for catalogue.

**JAMES RANKIN,** South Easton, Mass.

## SHOEMAKER'S BOOK ON POULTRY



and Almanac for 1899. 160 pages, 100 illustrations of Fowls, Incubators, Brooders, Poultry Houses, Poultry Supplies and largest Poultry Farm. Tells how to raise Chickens successfully, their care, diseases and remedies. Diagrams with full description to build best Poultry houses. All about Incubators, Brooders and thoroughbred Fowls with lowest prices. Printed on good paper in two colors. Price only 15c. Money back if not pleased.

**C. C. SHOEMAKER, Box 418, Freeport, Ill.**

....EMPIRE STRAIN....

## White Plymouth Rocks,

Lay large brown eggs.  
As good eggs as can be bought for \$1 per setting.

Stock for sale.  
**LURAY POULTRY YARDS,**  
Luray, Va.

## Here's A Combination THAT WINS.

The Feather,  
Farm-Poultry....  
The American  
Fancier's Poultry Book.

For Only One Dollar.

THIS is cutting prices in halves and a cheaper or better combination could hardly be made. Two leading papers and the most popular poultry book published for one-half their cost. You know these papers as well as the book. Send us one dollar and we will send them to you for a whole year as well as presenting you a copy of our book.

Make all remittances payable to

**George E. Howard & Co.,**  
S. W. Cor. 8th and H Sts. N. W.,  
Washington, D. C.



# 1847 Rossmore Poultry Yards. 1899

GEO. C. BUCKNAM, Manager.

"Ex-King" of Light Brahma Breeders,  
NOW BREEDER OF

## Improved "Full Feathered" Dark Brahmas Exclusively.

We have the Best this year in both Fowls and Chicks, and the Only ones in America as yet, which we can sell at very low prices according to merit.

None can Sell at Lower Prices as they have not the Birds.

No circulars. Write for wants.

Yards, 1071 Main Street, Melrose Highlands, Mass.

## LONE PINE POULTRY YARDS,

J. T. WALLING, Proprietor,  
Placerville, Cal.

Breeder of standard stock. B. P. Rocks, White Minorcas, White and Brown Leghorns, Light Brahmas, and B. C. Bantams. Eggs, \$2 per 15. No Bantam eggs. Stock in season.

50  
EGG SIZE \$5

## ONE MILLION TESTIMONIALS

Are Not so Convincing as the

## 30 DAYS' TRIAL FREE

We offer on every Incubator we make no matter how cheap. No regulator has ever approached in efficiency our Patent Pneumatic Regulator with which over heating is impossible. You may have chicks hatching every day in the week, with our Compartment Incubator. Among hundreds of others Mrs. M. T. Duvall, Old Church, Va., never before saw an incubator, yet with our Bantam hatched 50 chicks from 50 eggs. You can do as well. Send 4 cents for No. 108 Catalogue.



BUCKEYE INCUBATOR CO., Springfield, Ohio.

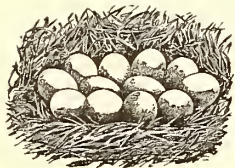
Will sell one-half of my breeding stock of 1898.

If you want the

## Cream of WHITE WYANDOTTES

Deal with me, the originator and breeder of the finest dark-egg strain in America. And the only strain that pleases both the fancier and the practical poultryman. In the great egg display at the Boston show, Jan. '98, my strain was King, winning first and second for best dozen brown, first for heaviest dozen (any color), first for best dozen Wyandottes, and Farm-Poultry's special \$10 in gold for the best and largest twenty-four or more Wyandotte eggs. The next week at the State show, St. Johnsbury, Vt., with eighteen birds, twelve entries, I won in strong competition twenty-three regular and special prizes. I won in strong competition twenty-three regular and special prizes. I won in strong competition twenty-three regular and special prizes. I won in strong competition twenty-three regular and special prizes.

W. E. MACK, Woodstock, Vt.



including the silver cup for the best collection of W. Wyandottes, three specials for best breeding pens, and special for best cock, cockerel, hen, and pullet. Stock and eggs for sale.

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Send for egg catalogue of this season's matings; also circular of unparalleled Exhibition Record at the Great Madison Square Garden show, New York City, Boston, Buffalo, Rochester, and all the largest Eastern exhibitions.

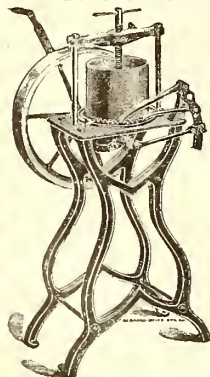
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THE Webster & Hannum Green Bone Cutter, formerly made at Cazenovia, N. Y., is now being manufactured and sold by the undersigned. This Bone Cutter has always been a favorite with poultrymen on account of its many advantages over all other machines. With our unsurpassed facilities for manufacturing, it will be better than ever.



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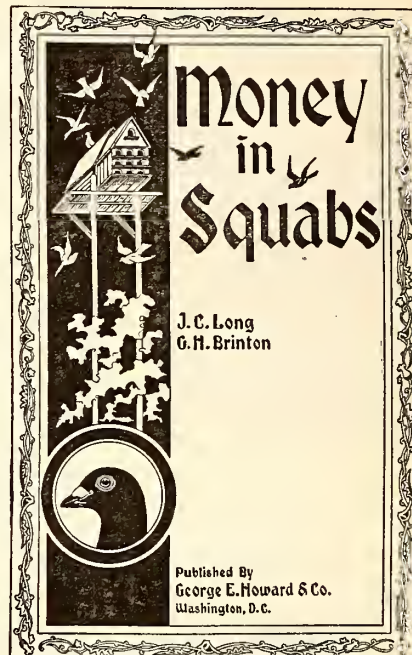
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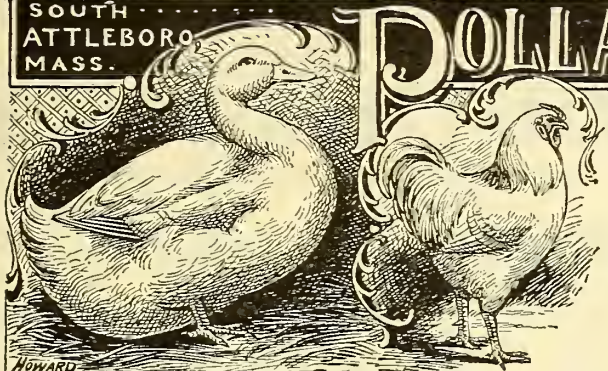
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...POLLARD'S...

Pekin Ducks, White Wyandottes, and White Rocks,

Are money makers. Our Pekins the past Winter won on 6 entries at Madison Square Garden, 1, 2, and 3 on both duck and drake. At Hagerstown, Md., a clean sweep of all Pekin prizes. At R. I. Poultry Show 15 regular and 8 special prizes on 16 entries, (losing 4th on old drake). At R. I. State Fair clean sweep.  
Eggs, \$2 per 12; \$5 per 50; \$8 per 100.

**Pollard's Poultry Farm, South Attleboro, Mass.**  
Only Duck Farm in New England advertising where premiums are won.





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**EAST INDIAN DUCKS,**  
Profitable, Beautiful, Rare.


**LIGHT BRAHMAS,**  
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The Excelsior Wire and Poultry Supply Co., of 28 Vesey St., New York City, is our sole agent for Aztecs and East Indian Ducks. Birds are always on exhibition at this place.



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**\$5 Prize Brooder.**

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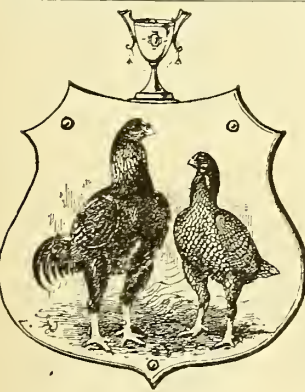
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the only remedy positively known to cure Roup in all its forms, as long as the fowl can see to drink. Simply put the cure in drinking water and the fowl will take its own medicine. FOR CANKER, especially in pigeons, this remedy excels all others. One 50c package makes 25 gallons of medicine. DIRECTIONS with every package. If this fails to cure we refund the money. Postpaid, small size, 50c; large size, \$1. Petaluma Incubator Co., Petaluma, Cal., Pacific Coast Agents.

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Please mention this paper.

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Cornish and White.

**White Plymouth Rocks.**



Our yards contain some of the world's choicest specimens as breeders among which are the famous pair of Cornish Indians recently imported by us from Mr. Jas. Frayne, and of which the cut here shown is an exact representation, taken from life, which won first and cup at the Crystal Palace show in London in 1897; many of Thompson's and Sharp's finest breeders of both varieties of Indians; as well as White Rocks as follows: The White Rock cock which headed one of A. C. Hawkins' best yards last year, score 94; hens winning 1st and 2d in New York, and recently scoring 96 and 95½ by D. M. Owens; a pen winning second at the last Washington, D. C. show, some of the pullets being scored over 95 by Lambert. Illustrated and descriptive catalogue sent for stamp. Prices reasonable, considering quality. Every egg guaranteed to be fertile, or replaced free.

Every bird described in detail, and if not, can be returned within one day at our expense. Correspondence invited. Eggs after February 1, 1899. Also Golden Sebright Bantams. Address,

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Of Dog Shows and exposure is at hand. You don't want to lose your youngsters. With Spratts new-style Condition Tablets and Distemper Cure you are safe. Send for full list of modernized medicines to Spratts Patent, 239 to 245 East 56th St., New York, Manufacturers of all kinds of Dog and Poultry Supplies.

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With the three above mentioned in stock, you lose no birds.

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Rocks, Buff and White.

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**Eggs for Hatching, \$2 per 13.**

**60 PRIZES**

Regular and special in '97 and '98 at leading shows of the State on our

**White Wyandottes** Buff  
**AND**  
**White, Plymouth Rocks** and Barred.  
Buff.

Our stock is bred from the best. Satisfaction guaranteed. Send for circular. Prices for eggs, 1 setting \$2; 2 settings \$3.50; 3 settings \$5; per hundred \$6.

**VALLEY VIEW POULTRY YARDS,**  
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Members of Buff and White P. Rock Clubs.

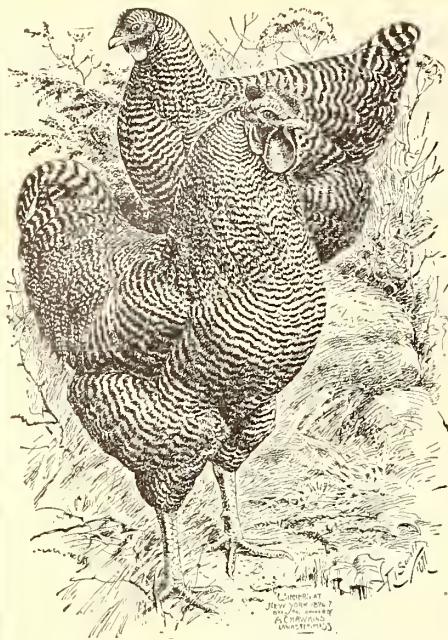
**EGGS REASONABLE FROM THOROUGHBREDS.**

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| \$ .90 for 15 | From White, Buff, and B. P. Rocks.  |
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Also \$1.50 for 15 eggs from Sherwoods, White Wonders, White and Cornish Indian Games, Blk. Javas, and Amer. Dominiques. Catalogue free.

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Winners at New York, 1897, from life.

# HAWKINS'

## ROYAL BLUE STRAIN

# PLYMOUTH ROCKS

BARRED, WHITE AND BUFF.

WYANDOTTES, SILVER AND WHITE.

**EGGS** FROM PRIZE MATINGS.  
1 Sitting, \$5. 3 Settings, \$10.  
2 Settings, \$8. 5 Settings, \$15.  
Per 100, \$20.00.

Have won more Prizes at the Leading Shows of America and England than all others. My matings for 1899 are the best I ever owned.

At the Great National Show, WASHINGTON, D.C., in hot competition with over 300 birds of these varieties, the best that could be found regardless of price, I won 45 Regular and Special Prizes on 39 Entries, including First Prize on Breeding-Pen in each variety, Special for Best Display in the American Class, Special for Best Exhibit of Plymouth Rocks, Sweepstakes Special for Best Cockerel in the show (Bantams excluded), and this on my First Prize Barred P. Rock Cockerel. My winning White Wyandotte cock was pronounced by the judges to be the best they had ever seen. I won twice as many first prizes as all other exhibitors of these varieties. My BUFF ROCKS, at BOSTON, 1899, in hot competition, won more first and special prizes than all others. My customers are winning all over the country. If you want the BEST, write me. Hundreds of Choice Exhibition and Breeding Birds at honest prices. Catalogue of America's finest Plymouth Rocks and Wyandottes free.

A. C. HAWKINS, Lock Box 28, Lancaster, Mass.

## PRIZES BY THE MILLION

Well hardly.

But 18 First Prizes out of a possible 25 at Madison Square Garden, New York,

In the last 5 years is a pretty good starter. 63 prizes on 70 entries including \$100 cup and \$25 trophy seems like a fairy story. They are facts nevertheless. Now what do these prizes mean? Just this. No other breeder of

## ...BLACK LANGSHANS...

In America can show as great a prize record as Dr. Robinson. At New York City, 1899, he won 1st cock, 1st, 2d, and 3d hens, 2d and 4th cockerels, 1st, 2d, and 3d pullets, 1st, 3d, and 4th exhibition yards. Grand Gold Special for best Langshan, 13 prizes on 13 entries. My record on Exhibition Yards at Madison Square Garden in the last five years, viz: 1st, 3d, and 5th in 1895; 1st, 4th, and 5th in 1896; 1st, 2d, and 3d, in 1897; 1st, 2d, and 3d, in 1898; and 1st, 3d, and 4th in 1899, has probably never been equalled by a breeder of any variety at any show in America. In these 5 years my Langshans have won 6 times as many 1st prizes as any other exhibitor and nearly 3 times as many 1st prizes as all competitors combined. For great style and carriage, magnificent plumage, small, evenly serrated combs, this strain can not be excelled. Enclose stamp for finely illustrated circular giving complete prize record.

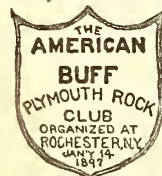
EGGS. \$5 per 13; \$9 per 26; \$12 per 39.

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"NEW YORK CHIEF."  
1st Ckl. N. Y. City, 1897.  
1st Cock N. Y. City, 1898.

Sec'y and Treas.



## DENNY'S BUFF ROCKS...

AT CHICAGO, 1899,

(The Annual meeting of the Buff Rock Club.)

Won more regular premiums than any other exhibitor, in a class of 82 birds by 14 exhibitors. Among the specials was the one for 2 best cocks, hens, cockerels, and pullets by 1 exhibitor; also special for most even colored cock. Still have some choice breeders for sale. Eggs, \$3 per 13. Orders booked now. Send for circular.

W. C. DENNY, Rochester, N. Y.

## THE "RINGLETS" SOAR STILL HIGHER

AT NEW YORK, FEBRUARY, 1898,

## E. B. Thompson's Barred Plymouth Rocks,

Again won all the Sweepstakes cups and Trophies, including the Superb Challenge Trophy, value \$100, for best cock, cockerel, hen, pullet, and exhibition pen. Sterling Silver Cup, value \$100, for finest exhibit. Grand Special Sweepstakes Cup, value \$100, presented by the President for best cock, cockerel, hen, and pullet, Plymouth Rocks, any variety.

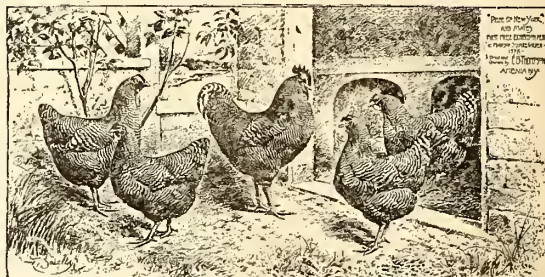
My Clean Sweep of 1st, 2d, 3d, 4th, and 5th Prizes on Pullets

Has never been approached in Madison Square Garden and stands alone and unequalled. The record of both 1st and 2d Prizes on Breeding Pens is also phenomenal. At New York, 1895-6-7 my Barred Plymouth Rocks won almost 3 times as many 1st prizes as any other exhibitor, and more 1st prizes than all competitors combined.

## 400 Grand Breeding Cockerels

For sale; also elegant pullets in any number. Eggs from finest exhibition matings, one setting \$5; two settings \$9; three settings \$12. Richly illustrated catalogue on Application. Address,

E. B. THOMPSON, Lock Box 406, Amenia, Dutchess Co., N. Y.

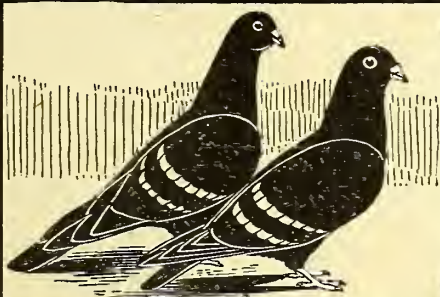


First-Prize B. Rock Pen at New York, February, 1898.

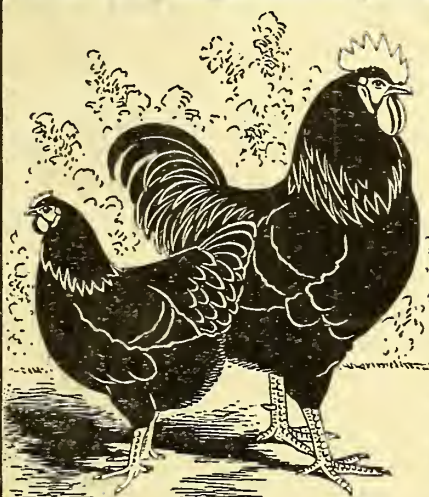


Dr. D. E. Salmon's Great Book "Diseases of Poultry" Now Ready.

# The Feather



PIGEONS



POULTRY

WASHINGTON, D. C.  
Vol. IV. MAY, 1899. No. 8.

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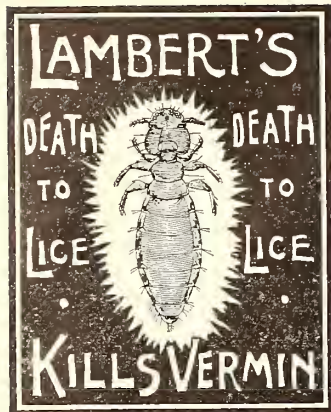
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## TO KILL ALL SORTS OF VERMIN

Use LAMBERT'S DEATH TO LICE.

A dose gives immediate relief, and a frequent dusting will keep a fowl clean, comfortable, and profitable. If a little could be placed in or around their tail-feathers while at roost, say once each month, there would be no need of handling each bird separately. A handful in each nest will keep the layers all right, and nothing but lice and bad smells are killed with this powder. Little chickens are often victims of head lice. They fasten their fangs into the cranium of the little "peepers," when from two to six weeks old, and suck the very life from every chick, unless removed by force or an application of Lambert's Death to Lice.

### DEATH TO LICE OINTMENT

Is an old English remedy for head lice on children, and it works equally effectually on chickens. A hundred can be treated in, say, ten minutes, without affecting the growth of a chick in any way.

Mites or spider lice often take possession of a henhouse or brooder. They hide in cracks and crevices by day, and crawl out on their victims at night, feasting on their blood until the lice are red as lobsters in the morning.

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Address D. J. LAMBERT, Box 247, Apponaug, R. I.



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## Barred and White Plymouth Rocks Exclusively.

I breed them for shape, size and color. Choice eggs at \$1.50 per 15; \$2.50 per 30; \$6 per 100.

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## OUR WHITE WYANDOTTES

1st cock, 2d hen, 2d cockerel, 1st and 2d pullet, at Great New York show, 1899.  
LEBANON POULTRY YARDS,  
Lebanon, Pa.

## It Is the Business Bird that Wins the Prize....

We have them. If you mean business send your orders direct to us. We will treat you right. Our stock is as good as the best.

## Houdans, W. P. Rocks, B. P. Rocks, and White Wyandottes.

Fresh fertile eggs for balance of season, \$2 per 13; \$3.50 per 26; \$6 per 52; \$9 per 100. Write your wants to-day to

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A. J. BARGAHISER, Prop. Rockford, Ohio.

## Arnold's Buff Leghorns..

The Oldest and Best Strain in America.

253 PRIZES SINCE 1890,

At Crystal Palace, England, New York, Boston, Washington, and Hagerstown. Eggs from our best matings (and we believe the best in the world), \$5 per 15; \$9 per 30; \$12 per 45. Eggs from other fine yards, \$2 per 15. We guarantee 10 chicks to each setting. Send for circular to

AUG. D. ARNOLD, Box 78 A, Dillsburg, Pa.

## ..BLACK MINORCAS..

Invincible Wherever Shown.

Winners at Madison Square Garden, 1899: 1st and 5th cock; 3d and 4th hen; 1st, 3d, and 4th pullet; 2d pen.  
New York State Cups for best cock, hen, cockerel, pullet, and pen.  
Board of Directors' Cup for best five male birds.  
Special for best exhibit in open class.  
Special for best two cocks and two hens.  
Special for best two cockerels and two pullets.  
Special for largest exhibit in class.  
I have also purchased and added to my breeding stock the Grand First-Prize Breeding-Pen of Minorcas at Madison Square, 1899.

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Canandaigua, N. Y.

RICHARD A. HOMEYER,

Riddle Village, N. Y.

—Breeder of—

Buff Wyandottes and Homing Pigeons.  
Prices Reasonable.

## TRY OUR FISH MEAL FOR POULTRY.

This is fresh Fish, cooked and pressed, dried in the sun, then ground to a meal. Write for price and sample. Agents wanted.

BYRON BILLINGS, Mystic, Conn.

## Victory! Victory! Victory!

== Crowns my ==

## Barred Plymouth Rocks..

A Manila and a Santiago battle in Madison Square Garden, and my victory as complete.

NEVER since poultry shows were started did any breeder of any variety even Approach my grand sweep at the late New York show.

**Read!!!** 1st and 3d on cocks; 1st and 2d on hens; 2d, 3d, 4th, and 5th on cockerels; 1st, 2d, and 3d on pullets; 1st, 2d, and 4th on exhibition yards. These are regular prizes only. In the Specials I WON ALL including Grand Silver Challenge Trophy Cup for best cock, hen, cockerel, pullet, and yard; also the Sweepstakes special for BEST PLYMOUTH ROCK hatched in 1898, and the President's Cup for best cock, hen, cockerel, pullet, and yard. This, to say nothing of my past record, eclipsed ALL OTHERS.

## 50 COCKERELS

Of same breeding, strong in undercolor, and straight barred from \$5 to \$10 each.

## 75 PULLETS

\$3 to \$5 each.

EGGS: 13 for \$5; 26 for \$9; 39 for \$12. From choicest matings.

C. H. WELLES, Stratford, Conn., U. S. A.

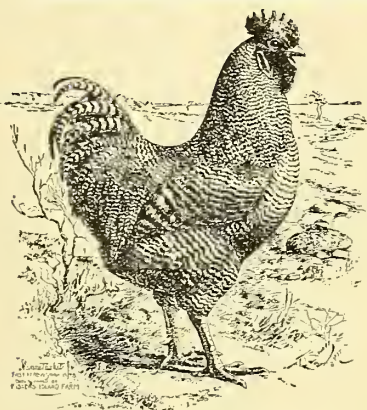


# Fisher's Island Farm,

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From best Blood in America.



"MUNNATAWKET, JR."  
First Cock at New York, 1898.

White and  
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Bronze and  
White Turkeys.

Cornish  
and White  
Indian Games...

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Pheasants.

Belgian Hares.

Fine Bucks and Does For Sale.

**W**INNERS at Pittsburg, Toronto, and New York the past season.  
Send for Illustrated Catalogue.  
Address,

## FISHER'S ISLAND FARM,

FISHER'S ISLAND, NEW YORK.

E. M. &amp; W. FERGUSON, Proprietors.

### Maple Grove Poultry Farm

L. O. BROMLEY, Prop.,  
Forestville, N. Y.



### Single Comb Brown Leghorns.

I exhibited this season in N. Y., Pa., and Ohio,  
21 birds and won nine 1sts, five 2ds, four 3ds, one  
4th, and one 5th; seven out of 21 scored 94-95.  
Eggs, \$1.50 per 15; \$2.50 per 30. Catalogue.

### Minich's Dark Brahmas are Hot Stuff

LOOK UP OUR RECORD AT ALL THE BIG SHOWS.

At Mt. Gretna, Pa., 1896, we won on our Darks 2d Cock, 1st Cockerel, 1st and 2d Hens, 1st Pullet, 1st Pen. Gold special for best five Brahmas in the show, any variety. Look up our winnings at Newburg, N. Y., and Hagerstown, Md.

We breed Red Caps, Houdans, Indian Games, Partridge Cochins, Golden Wyandottes, S. S. Hamburgs, Golden P. Hamburgs. Eggs \$2 per 15. Have a few dark Brahma Cockerels and Pullets for sale; will win in any show.

L. B. MINICH &amp; SON, Carlisle, Pa.

**"Froze to Death"**  
in that cold snap" has been the verdict on many a luckless brood of chicks. The fault was in the brooder. If they had been bred in  
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they would have come through all right.  
"The Champion Is Known by Its Work"  
and brings its brood successfully through, even in zero weather. Best authorities say it is perfect. Don't buy a brooder until you get our catalogue and endorsements.  
**J. A. BENNETT & SONS, Box B, Gouverneur, N. Y.**

### BOYLES' Rose Comb Brown Leghorns.

Winners of highest honors at Cleveland, Youngstown, Meadville, and Erie shows in the hottest competition. At the great Cleveland show, 1897, won 1st cock; cockerel, 1st, 2d; hen, 1st, 2d, 3d, 4th; pullet, 1st, 3d, 4th; pen 1st, 2d, 4th. At Hamburg, N. Y., cock, 1st, 2d; cockerel 1st; hen 1st, 2d, 3d; pullet, 1st, 3d; pen 1st. At Silver Jubilee show, Toronto, Can., cock 2d; cockerel 4th; hen 3d, 4th; pullet 3d, 4th; 6 prizes on 8 birds. Big catalogue free. Eggs, \$1.50 per 15 or \$2.50 per 30.

W. A. BOYLES &amp; SON, Meadville, Pa.

### Buffinton's Buffs

Still take the lead. Hundreds of prizes won at such shows as Madison Square Garden, Buffalo, Washington, Hagerstown, Hartford, Providence, Boston, and nearly every local show in New England. We have the only flock of good Rhode Island Reds in the country. Eggs from Buff Wyandottes, Buff Plymouth Rocks, Buff Leghorns, and Rhode Island Reds, \$2 per 13; \$5 per 40. Buff Cochins, Barred P. Rocks, and White Leghorns, \$1.25 per 13; \$3 per 40. Stock for sale. For \$1 we will send recipe for Sampson's method of feeding hens for eggs. Send for circular.

ROWLAND G. BUFFINTON,  
Box 677, Fall River, Mass.

### SYLVAN GROVE POULTRY FARM.

Red-Bay Strain GOLDEN WYANDOTTES.

Clear, open, reddish bay centers on back and breast, young birds (not fully matured) scored by Felch, Dec. 8, '98, as high as 94. Pullet "Bessie" was cut 1½ on weight, yet she got a score of 94, four weeks later she had gained this loss in weight, making her real score 95½. Blue Andalusians, fine as silk. Write for list of scores and prizes. Eggs, \$2 per 13; \$5 per 40.

E. S. &amp; E. F. WAYNE, Bernardston, Mass.

### Who Said I Hollered?

For \$5, Colchis Farm of Farmer, N. Y., will sell 1 trio White Muscovy Ducks that are beauties, and they never cry

### Quack! Quack! Quack!

EGGS THAT HATCH  
75 per cent Fertile. Guaranteed.

### PURE WHITE WYANDOTTES

Large size, quick growers, great layers, mature early. Mammoth Pekin Ducks. Long body, flat back, deep keel, December layers, record 140 eggs in 6 months. Bred for business and fancy. None better. Satisfaction guaranteed. 14 years' experience. Eggs, \$1 per 13; \$3 per 50; \$5 per 100. Stock, \$1 to \$5 each. Circular. Niagara Farm. W. ROY CURTISS & CO., Ransomville, N. Y.

### OUR EGGS ARE NOT THE DOLLAR KIND

|                                              |                                |
|----------------------------------------------|--------------------------------|
| Indian Games, per setting, \$8.00            | CUT CLOVER 100 lbs. \$1.25     |
| Buff Ply. Rocks, per setting, \$2.00         | 200 lbs. \$2.00                |
| Pekin Ducks, per setting, \$1.50             | Pure Beef & B, 100 lbs. \$2.00 |
| Mica Crystal Grit, 100 lbs. \$1; ton \$7     | Cracker Cr's 100 lbs. \$1.50   |
| Cash Oyster Shells, 100 lbs. \$1; ton \$6.50 |                                |

CLEVELAND POULTRY CO., Plattsburg, N. Y.

### E. F. TIFFANY, BROOKLYN, PA.

Breeder and shipper of prize-winning Light Brahmas, Bar, and White Rocks, W. C. B. Polish, R. C. W. Leghorns, B. B. R. G. Bantams, White Guineas, Pekin Ducks, Pointer dogs, and Ferrets. Stock and eggs for sale. Satisfaction guaranteed or money back every time.

### Down Goes The Price

For the balance of the season I will sell eggs for hatching at a very great reduction. Only \$1 per setting. Do not get the idea that because I have reduced the price the quality of the stock is reduced any. Now is as good time to set hens as in early spring, as the chicks will grow very rapidly if given good care.

### Great, Big, White Turkeys

Are the kind I raise and sell eggs from, and they are the kind that never get defeated in any show-room. You can raise some fine ones if you send at once for some eggs. My Bronze are just as good. Eggs 40 cts. each. Now is the time to order Guinea eggs and I have two varieties on two separate farms. Eggs, \$1.50 per 13. I am sending out a nice little booklet which tells where and what prizes my stock won the past season. I have 23 varieties. Send for catalogue.

D. A. MOUNT,

Pine Tree Farm, Jamesburg, N. J.





HENRY S. BALL - -

Breeder of Light Brahmas, Partridge Cochins, Barred and White P. Rocks. Bantams: Buff Cochins, White Japanese, and B.B. Red Games. Also a choice flock of Pekin Ducks.

Shrewsbury, Mass.



Steel tested Pit Games for sale. Enclose stamp for circular.

## BLACK WALNUT FARM,

Churchland, Va.

Breeds Barred and White P. Rocks, S. C. White and Brown Leghorns, White Wyandottes, Light Brahmas, Bronze Turkeys, and Pekin Ducks, from the best strains. Write for illustrated circular and price list. Eggs for sale. No more stock until July 1st. Please mention The Feather.

W. P. COTTON, Manager.

## MASON'S

## GOLDEN WYANDOTTES.

America's Leading Strain.

### EGGS

That will produce winners for 1900.

\$3 per 13.

## H. D. MASON & SONS,

FABIUS, N. Y.

### EGGS FOR HATCHING

White Wyandottes, White Indian Games, Barred Plymouth Rocks, White Crested Bk. Polish.

Good, strong, hardy birds and winners at that. Send for prices before you buy. No culls.

**Provident Food** for chicks, reduces the death rate in young chicks. Sample package 10c. Send for price. Orr's Clear Grit, crushed oyster shells, meat meals, and poultry supplies. Send for prices.

D. LINCOLN ORR, Box 7, Orr's Mills, N. Y.



S. C. B. Leghorns, Rose C. B. Leghorns, Golden Wyandottes.

Winners of 1st prizes at Hanover, Pa., 1898, Carlisle, Pa., 1898, Hagerstown, Md., 1898. Send for price list.

GUSTAVUS CULP, Virginia Mills, Adams Co., Pa.

You can't read everything in print. But you can read

### "Poultry and Pigeon Raising, And How to Make it Pay,"

By EDWIN W. FLY, Manager Clear View Farm, Chalfont, Pa. Send me 25 cents and I will send you the book postpaid.

### LEG BANDS FOR PIGEONS AND POULTRY.

1899 BANDS—The official enamelled bands of the Tumbler Clubs are furnished by me at 4 cents each, or 45 cents per dozen, without initials, numbered from 1 up. Aluminum bands for pigeons and poultry, will not tarnish, always the same color; with year and numbered 1 to 100, \$3 per 100; with year only, \$1.50 per 100; with initials, 25 cents per 100 letters. Send 2-cent stamp for circular and sample. Remittances must accompany order. Enamelled bands, 45 cents per dozen. T. Willets, 180 Lawrence St., Lowell, Mass.

## THIELE'S WINNERS ALWAYS WIN.



I WILL sell at a great reduction this season's eggs from prize winners at the great Hagerstown show, and other shows not mentioned, of the following varieties: White and Barred P. Rocks, White and Brown Leghorns and B. B. R. Game Bantams, for \$1 per setting or \$6 per 100; Buff and Partridge Cochins, Black Langshans, White and Golden Wyandottes, Buff Leghorns, Houdans, Sherwoods, Blue Andalusians, Buff Cochins and Silver Sebright Bantams for \$1.50 per setting or \$8 per 100; Dark Brahma eggs, \$2 per setting; White Turkey and African Geese eggs, 25c. each; Pekin Duck eggs, \$1 per setting or \$8 per hundred; hen eggs, 15, and duck eggs, 11 per setting. I have also some Ice Pigeons which I will sell for \$4 per pair; Homers, all colors, \$1 per pair; Black and Red Magpies and Archangels, \$2 per pair. Stock of all varieties for sale at all times. Young Belgian Hares \$1 per pair. Jersey Red, Berkshire, and Essex pigs for sale at all times. Send stamp for reply. No catalogues.

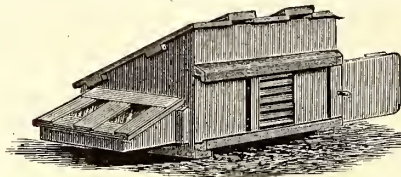
R. THIELE, Silver Hill, Md.

## LINWOOD POULTRY YARDS

Established in 1874.

Chas. McClave, Owner, Box A, New London, O.

Veteran breeder of prize-winning Black Minorcas, P. Rocks, L. Brahmas, P. Cochins, Langshans, Leghorns, Wyandottes, Polish, Bantams, Bronze Turkeys, Geese and Ducks. Over 3,000 prizes won by my birds. Hundreds of choice birds for sale at all times. Prices reasonable. Send for fine catalogue telling all about my birds. All stock farm grown, strong, vigorous and healthy. Low rates by express, prompt service, best quality and satisfaction to all.



### "THE HOFF PATENT COOP"

For a hen and her brood, saves food, labor, etc.; defies all nocturnal enemies, and is the best coop ever used. No agents now, and prices reduced.

1 coop \$3.50; 3 coops \$3.25 each; 5 coops \$3 each; 10 coops and upwards \$2.75 each.

Send for descriptive circular.

W. R. HOFF, Owner and Patentee, Rider P. O., Baltimore Co., Md.

## Barred Plymouth Rocks.

## Pekin Ducks.

(Newman's.)

KINLOCH FARM, Cockeysville, Md.

Colony plan. Stock bred from two-year-olds, insuring size and vigor. Barred Rocks, \$1.50 each and upwards. Our Ducks are the equals of any ducks, \$1.50; drakes, \$2.

N. B.—Stock of higher feather merit matter of correspondence.

Eggs, \$1 per setting.

W. H. WIGHT, Cockeysville, Md.

## TRETHAWAY'S BLACK MINORCAS.

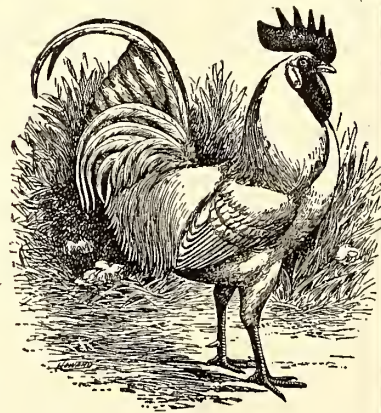
Winners of the American Black Minorca Club (\$250) Trophy, in the strongest competition ever brought together, winning at New York, 1899, 1st and special pens, 2d cockerel, 2d hen, 2d pullet, 3d cock. 1898, 1st and special pens, 2d and 3d hens, 2d and 3d pullets, 3d cock. Eggs from winners and birds that produce winners for my customers \$3 per setting. Stock for sale. Satisfaction guaranteed. ARTHUR TRETHAWAY, 133 S. Sherman St., Wilkes Barre, Pa.

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The Prize Winners' Home.

I have won over 400 prizes in 1898 at the largest shows, and at the late Washington, D. C. show held January, 1899, on 48 entries I won 40 regular prizes, 10 specials, and 3 incubators for best display of Plymouth Rocks and Langshans. Eggs from Buff, Barred, and White Plymouth Rocks, White Wyandottes, Langshans, and Mottled Anconas, \$2 per setting. No catalogue. Address,

F. G. BEAN, Fairview Village, Pa.



## WYCKOFF'S White Leghorns

America's Business Hen,

Have been carefully bred and improved for the past 18 years regardless of expense, and on the strictest application of the true principles of Leghorn breeding with a result that fully justifies their acknowledgment everywhere as **The World's Greatest Laying Strain of S. C. White Leghorns**, combined with the highest degree of excellence in Standard Qualities, Size, Strength, and Vigor, and layers of large, pure white, perfectly shaped eggs that command the highest premiums in the finest city markets.

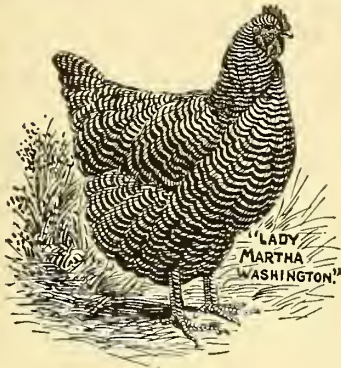
Hundreds of unsolicited testimonials recently received from customers in all parts of the country testify, not only to their superior laying qualities, but also to the many victories and high scores awarded them in the show-rooms.

Good breeding stock in early cockerels and 1897-hatched hens yet for sale. Eggs for hatching from my choicest selections and matings only, the cream of over 1,200 carefully bred birds. No close inbreeding ever practised in my yards.

Eggs, \$2 per 15; \$3.75 per 30; \$5 per 45; \$10 per 100. Large illustrated and descriptive circular free.

ADDRESS C. H. WYCKOFF, Groton, Tomp. Co., N. Y.





"LADY MARTHA WASHINGTON."  
1st at Hagerstown, '96.  
1st at Washington, '97.

## Barred Plymouth Rock Eggs

I have mated 5 pens this year that please me better than any I have ever had. I retained all my best females for breeding and have 50 in my pens. Mr. Calvin Rineholt, a man experienced in feeding for eggs and raising chicks, a man who could drink, eat, and sleep with chickens, will spend his entire time in my yards raising young chicks. I feel sure I can furnish good eggs, fertile eggs. I will duplicate orders where eggs prove not to hatch well. Eggs from best two pens, \$3 per 13; \$5 per 26. Eggs from 3 other pens equally as good for practical purposes, \$2 per 13; \$3.50 per 26; and \$5 per 39. If you will favor me with your order I will try and please you. For list of winnings refer to December and January number of THE FEATHER. Incubator eggs, \$3 per 100.

VALLIE HAWKINS, M. D.,  
Fawn Grove, Pa.

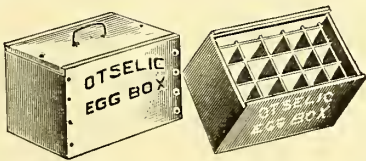
## ...OTSELIC POULTRY YARDS...

W. A. SMITH, Proprietor.

Breeder of Fancy Poultry and Pet Stock. I also Manufacture Egg Boxes.

My prices for '99 as follows:

|              | per doz. | per 100. |
|--------------|----------|----------|
| 15 Egg Size, | \$1.25   | \$ 8.00  |
| 30 " "       | 1.60     | 11.00    |
| 45 " "       | 1.95     | 14.00    |
| 60 " "       | 2.50     | 17.00    |
| 75 " "       | 2.65     | 20.00    |
| 100 " "      | 3.40     | 25.00    |



This is the Safest, Neatest, and Best Egg Box on the Market.

Also Hard Wood Rods for Show Coops.

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|-----------------------------|-----------------------------|
| $\frac{3}{4}$ in. diam't'r. | $\frac{1}{2}$ in. diam't'r. |
| 2 ft lg. 45c 100            | 2 ft lg. 50c 100            |
| 3 " " 55c 100               | 3 " " 60c 100               |
| 4 " " 65c 100               | 4 " " 70c 100               |
| 5 " " 75c 100               | 5 " " 80c 100               |

### EGGS FOR HATCHING:

\$1 per 15; \$6 per 100. Golden and Silver Wyandottes, White and Black Minorcas, S. C. White and Brown Leghorns, R. C. White and Brown Leghorns, Anconas, Black and White Hamburgs, Buff, White, and Black Pekin Bantams, and Banded White Bantams, Silver Duckwing Leghorns, Pekin and Rouen Ducks' eggs, \$1 per 11. PET STOCK—Young Belgian Hares, \$2 a pair; young White Angora Rabbits, \$2; young Himalaya Rabbits, \$3; young White English Rabbits, \$1; Guinea Pigs, \$1; Abyssinian Pigs, \$2; Peruvian Pigs, \$3. Address, W. A. SMITH, Whitney's Point, N. Y.



## HOMING PIGEONS

G. R. BAYLE,  
1643 Race St.,  
Phila., Pa.

Reliable Birds at

Reasonable Prices.

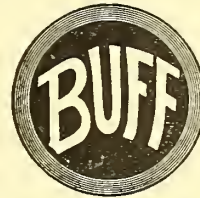
## B. B. RED GAMES.

The grandest lot of chicks we ever raised. If you want birds with tremendous reach, fine snake heads, long thin necks, low close tails, combined with brightness of color, and hardness of feather, we can supply you. Also grand massive BUFF COCHINS, brothers and sisters to our winners at Johnstown, Brockton, Keene, Fitchburg, Boston, and Brattleboro. Cornish Indian Games, Pit Games, and Game and Ornamental Bantams. PEIRCE BROS., Lock Box P, Winchester, N. H.

J. D. WILSON,  
Box 127 C,  
Worcester, N. Y.

### Buff Ply. Rocks.

They have won World's renowned reputation. Clean sweep at World's Fair, and have continued to lead in this country and England. N. Y., '95, '96, and '98. Winning the Am. Buff P. Rock Club's Silver Cup for Best Collection at N. Y. '98. Eggs, \$5 per 13; \$8 per 26; \$10 per 39.



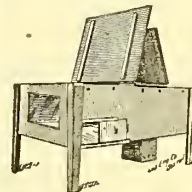
Have You Smiled Over the clever war souvenir, "THE FLAG THAT WON"? A splendid gift for a soldier friend and contains many fine poems for recitation. It tells: THE TRAGIC STORY OF OUR SPLENDID MAINE; THE FUNNY STORY OF OUR WAR WITH SPAIN; THE MAGIC STORY OF OUR WORLD-WIDE GAIN; THE BRILLIANT STORY OF OUR PEACEFUL REIGN.

By mail, postpaid, 30c.

MYRA V. NORYS, Cranford, N. J.

### THE OLD

### Homestead Brooder



Will care for 100 Chicks until they are old enough to go to the roost; the simplest, cheapest, and best Brooder made. Circular free.

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Sturbridge, Mass.



### HATCH CHICKENS BY STEAM

with the Excelsior Incubator. Thousands in successful operation. Simple, perfect, self-regulating. Lowest priced 1st-class hatcher made. Circulars free. Send 6c. for illus. Catalog.

### EXCELSIOR INCUBATOR

is guaranteed to hatch a larger percentage of fertile eggs at less cost than any other hatcher. Geo. H. Stahl, 114 to 122 S. 6th St., Quincy, Ill.

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Prize winners at Madison Square Garden, Rochester, and Syracuse.

100 Choice Cockerels for Sale.

Eggs from twenty grand yards. Send for circular and list of matings for '99.

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No. 1.—The American Fancier's Poultry Book, 3d edition, by George E. Howard, 170 pages, 215 illustrations. Now ready. Price, 50 cents.

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THE FEATHER and No. 1, 50 cents; THE FEATHER and No. 2, 50 cents; THE FEATHER and No. 3, 75 cents; any two books 75 cents; the three books ordered at one time \$1; two books and THE FEATHER 90 cents; three books and THE FEATHER \$1.25.



# 8 TO 2

## S. C. WHITE LEGHORNS

Not quite "16 to 1," but sufficient to sustain our long-standing claim that our BEST EGG-PRODUCING VARIETY KNOWN. LARGE WHITE EGGS.

THE BEST GENERAL-PURPOSE FOWL.  
BROWN-EGG STRAIN.

## WHITE WYANDOTTES

— STILL LEAD ALL OTHER STRAINS! —

At New York State Fair, September, 1898, EIGHT of the ten FIRST PRIZES offered on our varieties were awarded to **KNAPP BROS., Fabius, N. Y.**, 16 years before the public and at 37 of the leading shows, with HIGHEST HONORS every time. We now have nearly 1,000 CHOICE BREEDERS and EARLY-HATCHED CHICKS. If you want fall or winter SHOW BIRDS and SURE TESTED BREEDING STOCK, at reasonable prices, **LET US HEAR FROM YOU SOON.** Stamp for catalogue giving *highest prize record ever won by any breeder of any variety.*

**KNAPP BROS., Box 600, Fabius, N. Y.**

## UPLANDS POULTRY FARM,

Box 100, Station D, Baltimore, Md.

### White Wyandottes,

Typical shape, white as snow.

### Barred Plymouth Rocks,

Typical shape, clean, sharp, deep barring.

### Partridge Cochins,

Heavy feathering, correct color, and penciling.

### Light Brahmas,

Typical shape and penciled tails.

### Pekin Ducks,

Weighing from 9 to 12 lbs. each.

Our birds have won at New York, Boston, Washington, D. C., Hagerstown, and other shows. At Washington, D. C., January 10-14, 1899, our Barred Rocks won 1st and 3d hens, 2d and 4th pullets, 3d and 4th pens; White Wyandottes won in every class. Eggs from prize matings, \$3 per 13; \$5 per 26. Duck eggs, \$2 per 11; \$3 per 100. Satisfaction guaranteed. Stock for sale.

Address: **M. E. PHELPS, Manager.**

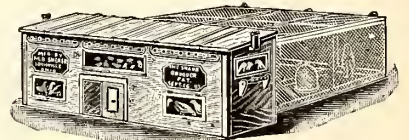


### E. L. MILES, Sag Harbor, N. Y.

Is the Originator and Breeder of the

Montauk Strain of

### Barred Plymouth Rocks.



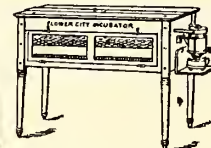
Raise your Chicks in **BROODERS**, Our Compartment and your success is assured. Send 2-c. stamp for catalog. **M. O. SHERER, Box 7, Louisville, O.**

### BUFF COCHINS!

Our buffs are noted for their great size and heavy feathering. At Hagerstown, '96, '97, and '98 we won more first and second prizes than any two competitors. At Hagerstown, '98, we won 1st and 4th on cockerels, 1st and 4th on pullets, 1st, 2d, and 3d on hens, and 2d on pen. Eggs from these grand birds \$3 per 13; \$5 per 26.

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### Incubators and Brooders...



Get the World's Standard Best. Their operations are so simple and perfect, that a free machine goes to each cash customer to introduce them. Large illustrated circular 5 cts. Valuable catalogue 10c.

Address, **FLOWER CITY INCUBATOR CO.,** Mention The Feather. **Rochester, N. Y.**

### 85 Premiums on 85 Entries,

Were awarded our Barred and White P. Rocks, White Wyandottes, S. C. Brown Leghorns, Rhode Island Reds, Black Javas, and Minorcas. Some Boston winners. Eggs \$1.50 per 15; \$3 per 30; \$5 per 60; \$8 per 100. Circular free.

**GEO. A. CHAPIN, Hampden, Mass.**

Advertisements in The Feather pay.

## The Hen's Friend.



The Webster & Hannum Bone Cutter cuts bone, meat and gristle in just the form fowls like it best, and in the form they need it for egg production.

It is the lightest running bone cutter on the market, and requires but one hand to operate, being absolutely self-feeding and regulating. Received only award at World's Fair, Chicago.

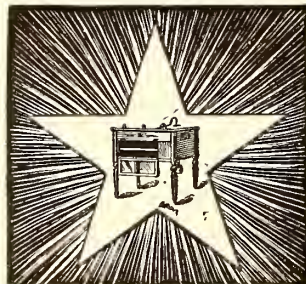
We also make Grit Crushers and Clover Cutters. Send for free booklet.

**E. C. STEARNS & CO., Box 10, Syracuse, N. Y.**

## THE STAR INCUBATOR

Never fails or disappoints.  
No guessing in its operation.

Catalogue Free.



Simple,  
Accurate,  
No moisture to be supplied.

**Star Incubator and Brooder Co., BOUND BROOK, N. J.**



## PIONEER CLOVER MEAL

### ..The Shell of an Egg..

must be strong enough to protect its contents and carry it safely to market. Its strength will depend much upon the food the hen consumes and upon her general health. Only sick or overfat hens lay soft-shelled eggs.

### PIONEER CLOVER MEAL

make strong-shelled eggs and the most of them of the best flavor. It is rich in mineral matter—salts of lime for forming the shell and rich in protein-albumen for making the white and the yolk. It doubles the egg production wherever fed to hens. It produces summer conditions in the middle of the winter and makes hens lay lots of eggs when eggs are worth the most money. It is made from the finest clover hay, preserved by our own peculiar process so as to preserve the natural green color and the sweet aroma and essential oils. It is ground into the finest meal by our specially constructed machinery. In addition to its many good qualities it has the additional advantage of being cheap.

#### PRICE OF PIONEER CLOVER MEAL.

Fifty lbs. \$1; 100 lbs. \$2; 5 lbs. 25c. A 50-lb. bag contains 3 bushels; best poultry food on earth at 33¢ per bu. Send for free sample and circulars of indorsement.

**BENNETT & MILLETT COMPANY, Box 4 B, Gouverneur, N. Y.**





# Norwood Poultry Farm,

BEL AIR, MARYLAND,

P. H. McCORMICK, Proprietor.

## S. C. Black Minorcas a Specialty.

WINNERS AT AMERICA'S LEADING SHOWS.

### EGGS FOR HATCHING,

Black Minorcas, Pekin Ducks, Bronze Turkeys.

At Hagerstown, 1896, won 1st and 5th cockerels, 1st pullet and 2d pen; at New York, 1896-97, won 1st and 2d pullets; at Washington, D. C., 1897, won 1st cockerel, 1st and 2d hens, 1st and 2d pullets, 1st pen, 2d Pekin drake, 2d Pekin duck and two specials. Also breeder of Bronze Turkeys, Pekin Ducks and Lop-eared Rabbits. Minorca eggs, \$2 for 15. Bronze Turkey eggs for sale at all times. Stock always for sale. Eggs in season. Write for circulars and prices. Enclose stamp for reply.



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FOR POULTRY AND PIGEON BREEDERS.

Our prices are the lowest when workmanship and quality of stock are considered. We will be pleased to quote you prices on Cards, Envelopes, Bill-heads, Letter-heads, Statements, Shipping Tags, Circulars, Catalogues, etc.

GEORGE E. HOWARD &amp; CO., Printers and Publishers.

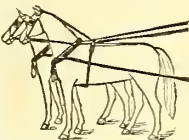
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and save all intermediate profits and expenses. Traveling men's expenses, agents' and dealers' commissions, losses on bad accounts, etc.

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We sell to you direct from our factory at wholesale prices. We are the largest manufacturers of vehicles and harness in the world selling to the consumer exclusively. You may not have been accustomed to dealing this way but just one trial will convince you of its advantages. We are not dealers or jobbers. We make every article we sell. 170 styles of vehicles and 65 styles of harness to select from. No matter where you live, we can reach you.



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We ship our goods anywhere for examination. Send for our large Illustrated Catalogue—FREE.

No. 211—Three-spring Extension-Top Carriage. Price, complete, with lamps, fenders, curtains, storm apron and pole or shafts, \$65; usual retail price, \$85.

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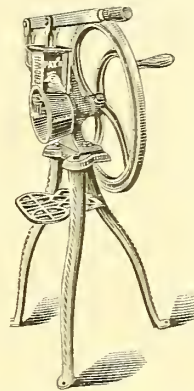
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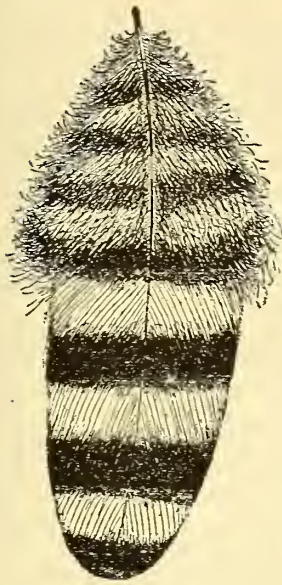
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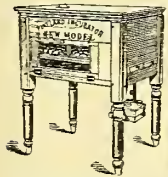
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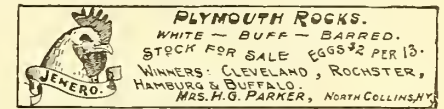
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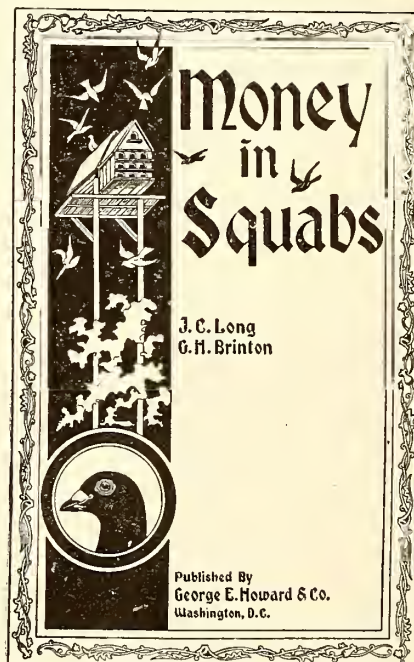
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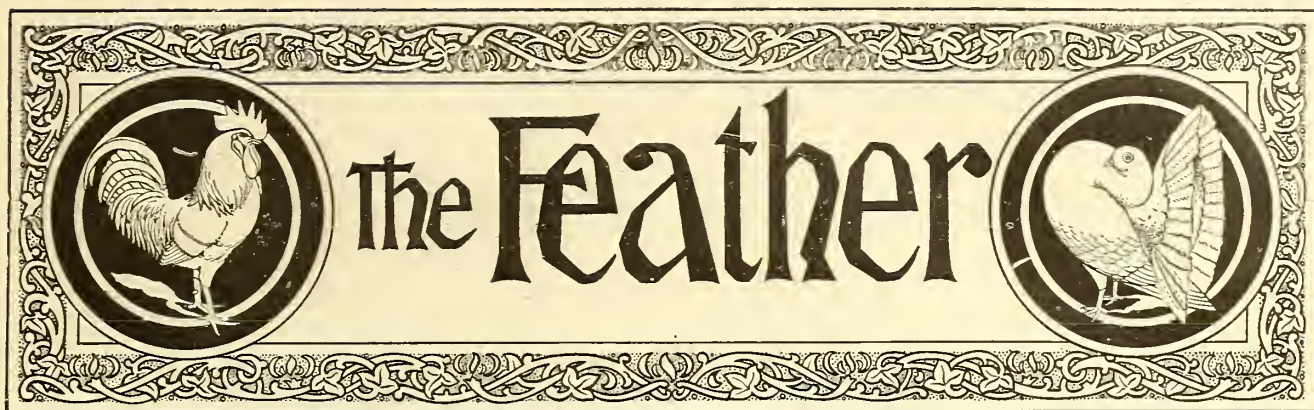


SUPPLEMENT TO THE FEATHER,  
MAY, 1899.

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BLACK MINORCA MALE.





A National Journal Devoted to Poultry, Pigeons, Birds, Etc.

VOL. IV. No. 8.

WASHINGTON, D. C., MAY, 1899.

FIVE CENTS.

## THE POULTRY BUSINESS.

Embarking in the Business—Mastering the Details—  
Suitable Houses and Appliances—Keeping Things  
Clean—Regular System of Feeding—Over-feeding—  
Pure Water and Grit.

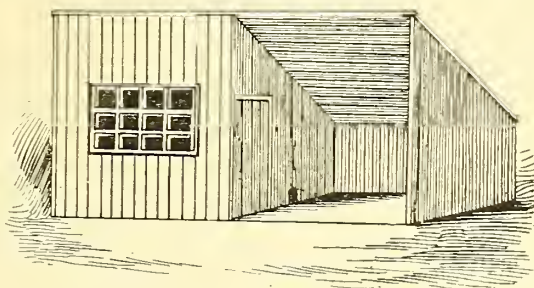
The Management of Poultry a Science.

BY ELLSWORTH.

**P**OULTRY raising is a profitable business, but it can not be learned in a day. It requires close study and careful thought to make it successful and paying. Many embark in the enterprise without any knowledge whatever of the requirements necessary for raising poultry, and the result is far from expectations. The better plan would be to carefully consider the necessary requirements, and then to begin in a small way and gradually work up in the business, mastering all the details, and thoroughly acquiring a full knowledge of the work. Careful attention is absolutely necessary to make it a success, and nothing is to be left undone. Do not underestimate the business, nor do not look too lightly upon some of the details as being trifling, but rather the contrary. Carefully lay your plans and then follow them religiously to the end. All things must be conducted in a thoroughly business-like manner. It should be considered from the start as all other enterprises are considered. Perhaps, no known business in the world requires more thought or a deeper knowledge than poultry raising. It is thoroughly practicable, profitable, and successful when conducted upon these lines. You must understand that you assume a heavy burden when starting in the poultry business. The slightest mistake may cause absolute loss. The management of poultry can be made a science. It is undoubtedly one of the most complete and profitable enterprises that man can engage in. The results are greater for capital invested than any other business to our knowledge and we should not hesitate to study it completely before embarking into it on a large scale.

Let us now suppose that one is ready to begin poultry raising. The first requirement is a suitable house for keeping the fowls. This house should not be expensive, but should be built on economical principles and for the

best health and comfort of the birds. The house should be built on an elevation having natural drainage. The soil should be sandy or gravelly, as such ground is kept in better sanitary condition than clayey or other soil. We show an illustration and plan for a house holding twenty-five fowls. This is the accepted plan, with open-shed attachment, and gives the most satisfactory results. This house should be, on the ground plan, about ten by twelve feet. The front elevation is nine feet and the rear six. The roof is a plain shed roof, covered with tar paper or shingles as may be desired. One window in the front is sufficient. The whole house should be built of one-inch boards and the cracks should be covered with strips, making it free from all draughts. The interior of the building should be lined with heavy felt paper. The



POULTRY-HOUSE WITH SCRATCHING-SHED.

floor should be raised from nine to twelve inches from the ground, and should be covered with road-dust four or five inches deep. This is the most satisfactory flooring known for keeping chickens, being perfectly dry and free from dampness. The floor of the scratching-shed should be raised also and covered as the floor of the house. During winter the floors should be covered with straw or leaves for scratching purposes, and all grain foods should be scattered in this litter, to keep the fowls in exercise. The interior arrangement of the house should be very simple. Nests and roosts should all be movable so that they may be taken out of the house and thoroughly cleaned when desired. We show an illustration and good plan for nests. This nest is large and light, and so built as to be easily cleaned. It has a detachable front made of laths, which is very convenient when setting a hen, to prevent others from laying in the same nest.

Both the house and the interior arrangement should be kept clean. Cleanliness is above all things essen-



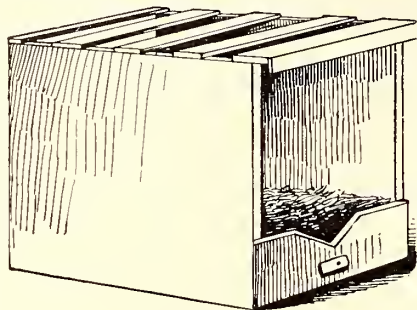
tial in poultry raising. Dirt and filth are the cause of many ailments and diseases amongst the fowls. White-wash should be liberally used and kerosene should be applied to houses and nests regularly. The droppings should be gathered frequently, and the whole house should be disinfected and kept in a good healthy condition. Bad odors are not necessary to the health of the fowls, but good ones are. It is far better to keep a clean poultry-house than to keep a dirty one. No ventilation is needed in poultry-houses. If the house is kept clean and the flock is not too large for the accommodations, it is all the ventilation necessary in the henhouse.

A perfectly regular system of feeding should be adopted. Nothing, perhaps, is more beneficial to the condition of the fowl. Consider the results desired, and feed accordingly. Regularity in feeding should be strenuously adhered to. The fowls will become accustomed to the hours of their meals and will look forward to them. This intelligence is natural to all mundane beings, and the more it is encouraged in dumb animals, the easier it will be to control them. Feeding at irregular hours begets restlessness and impairs their value, while, when they have regular hours of feeding, they are more contented among themselves, and more readily carry out their natural inclinations. Over-feeding is an error that should not be tolerated. Too much food is a greater drawback to the welfare of fowls than too little food. It is, by far, better for the fowls to be a little hungry than to be over-fed. Indeed, many sad mistakes are made by poultrymen in feeding too much to their fowls. Birds in the wild state seldom suffer this inconvenience, and it would be better if we follow more closely the lines of nature in feeding than to adopt a principle that will alter the natures of fowls under domestication. The fowls should earn their food by scratching for it. Make them work for every grain of food they eat; exercise is the best tonic you can give them.

Pure water is necessary at all times, the fresher and purer the water, the better it will be for the fowls. Once a day is often enough to supply water, but do not let it go for two or more days before changing. The drinking-vessels should be frequently cleaned with scalding hot water, and should be covered to keep dirt from getting into the water. Grit or oyster shells should be kept always before the fowls when in confinement. Fowls on unlimited range find sufficient grit but those confined in runs can not get it unless it is supplied. Grit is to the fowls what teeth are to the human being; it is their teeth, and their chief means of masticating their food.

### MONEY RETURNED.

If any one who wants a book on Diseases of Poultry is not satisfied with Dr. Salmon's great book, after he has examined it, we will cheerfully refund the purchase money. Price only 50 cents postpaid. GEORGE E. HOWARD & CO., Publishers, S. W. Cor. 8th and H Streets N. W., Washington, D. C.



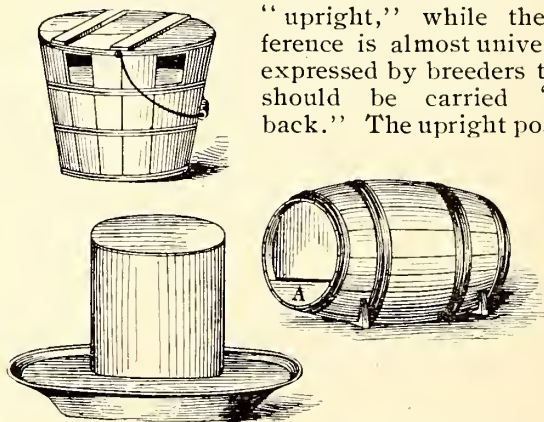
PLAN OF NEST.

### THE MINORCA.

Minorcas belong to the Mediterranean class, and they are placed next to the Leghorns in laying qualities. They are in appearance very similar to the Leghorns. Their general outline is, in fact, that of the latter, but of more length of body and heavier in mold. Indeed, they are the only variety of the Mediterranean class that has a given weight which approaches that of the Wyandotte, being only one-half pound lighter. The origin of the Minorcas, like that of so many others of our profitable poultry, is much in doubt. Some are of the opinion that they originally came from Minorca, one of the Balearic Isles in the Mediterranean Sea, while others contend they are a variety of the Black Spanish. Be that as it may, they are one of the most profitable breeds of poultry for the farm.

The Minorcas are good for table purposes, the flesh being white or light-colored, and fine-grained. Their chief advantage is their egg production. They are non-sitters, and year-around layers. As winter layers they are exceptionally good when kept under fairly favorable circumstances. While the Leghorn surpasses them in the number of eggs laid, the Minorca's eggs are larger, and equal the output in bulk. Their eggs are white, and average eight to the pound. They lay from twelve to fifteen dozen a year. Being of an active, restless disposition they keep in splendid condition and make good foragers. For suburban poultry keeping they are very practical birds, and net good results to the keeper. They are hardy, easily raised, and mature quickly.

The Minorca fowl is large in outline, well bodied; stands well up on its legs; has a broad chest, and a long, flat back, with tail carried upright. Many breeders dispute as to the carriage of the tail. The Standard says "upright," while the preference is almost universally expressed by breeders that it should be carried "well back." The upright position



DRINKING-VESSELS.

gives the tail the Leghorn type, while the typical Minorca differs somewhat from it by being more horizontal. The body of the Minorca male is long, square in front, tapering from front to rear. When standing erect, the body of male is at an angle of nearly forty-five degrees. Thighs are stout; shanks, medium in length, stout in bone, and in color dark slate or nearly black; comb, single, large, perfectly straight and upright, evenly serrated, and extending well over back of head. The comb of the Minorca is larger and more bulky than that of the Leghorn. Wattles are thin and pendulous, corresponding with size of comb; ear-lobes, pure white. The female is in body of the same general appearance as the male, rather long, broad, and deep. Her comb



is single, large, and drooping to one side; like comb of male, her comb is perceptibly larger than that of the Leghorn female. Black Minorcas are in plumage a rich, glossy black throughout, and gray tips are considered serious defects. The White Minorca is as popular as the Black, and takes the same position as does the White Leghorn in its class. The standard qualifications are equal for the two except in color, and that must be pure white throughout, feathers other than white disqualifying; the other qualities are equal, as to profitableness, between the two varieties. The comb, face, and wattles are bright red, free from white in face; eyes are dark hazel or red.

Before concluding in regard to Minorcas, it is worthy of note that the latest acquisition to the breed is the Rose Comb Black Minorca. The only objection that has ever been raised against the varieties of the Mediterranean class is their susceptibility to frostbite of the comb. Their combs are so large, that continued cold or exposure is sure to result in this injury. To obviate this one defect, if it may be so termed, in this valuable class of birds, has been the purpose of breeders in producing a bird that possesses the other qualifications, but with low rose comb. There are two standard varieties of Minorcas—the Black and the White. The Rose Comb Black Minorca is not recognized as a standard variety as yet, but indications point to its admission as such in the near future. Many good specimens have been bred and exhibited at the recent shows, and success in making this variety seems assured. The head of the Rose Comb Black Minorca male should be medium in length; beak, stout and black; eyes, dark red; face, smooth and red; comb, rose, straight, and set close and even on the head. In size the comb should be between that of the Wyandotte and the Leghorn; wattles, medium in length and not so large as in single-comb variety; ear-lobes, pure white, large, smooth, and almond shaped. The head of female is similar to that of the male—medium in size; face, red; comb, small and even on the head; wattles, medium in size, thin, and bright red; ear-lobes, pure white, large, and even.

The standard weight of a Minorca cock is 8 pounds; hen, 6½ pounds; cockerel, 6½ pounds; and pullet, 5½ pounds.

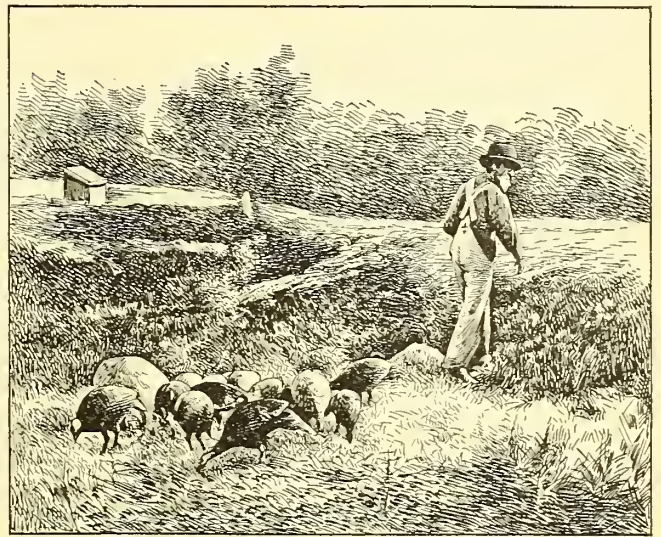
### RAISING TURKEYS.

The name turkey as applied to our favorite fowl, is explainable only upon the theory of its Asiatic origin. By the French the fowl is called *dindon* or *dinde*, a contraction of *oiseau d'Inde* (bird of India). The Greeks and Romans had what they called *meleagrides* or *Gallinæ Africano*, which were supposed to be the original race of turkeys, but they were in reality Guinea fowls. The first writer who mentions the American turkey is believed to be Oviedo, in 1525, who describes them under the name of peacocks, commenting upon the vast number found in the wild state in this country at that early day and their excellence as an article of food. He found them raised by Europeans in New Spain, whence they were introduced into New Castile and the West Indies. Their history and discovery, like the history of most breeds of domestic fowls, are involved in obscurity, but it is certain that their origin is American.

Its popular and scientific names are both unwarranted, and arose from a misapprehension of what the bird really was, some supposing it to be allied to the Guinea fowl, and others to the peacock.

The turkey is the most valuable domestic fowl and the successful raising of them is very profitable to the breeder. Aside from being the largest of all poultry, its flesh is of the finest and more esteemed than any other. In proper locations it gathers more than half of its living from the woods. By raising an early brood a great saving is made, as the young will catch the first crop of grasshoppers, and in this way prove of double value.

To successfully raise turkeys you must have vigorous birds. This is more essential with the turkey than with any other fowl, as they are very susceptible to surroundings and influences, and inbreeding is strenuously to be avoided. Bad food and neglect will dwarf their growth and weaken their constitutions, giving bad results and poor return to the breeder. To maintain size is one of the most important as well as profitable points in raising turkeys. In selecting the breeding stock care must be taken in the size of the male. He should weigh from 30 to 35 pounds and be in per-



FEEDING TIME.

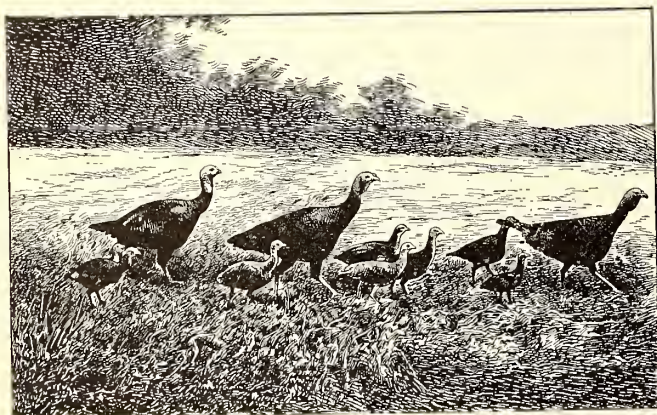
fect condition. It is not so important to have such large females. If the hens are in good condition they should weigh from 15 to 20 pounds. A good idea for farmers of one neighborhood is to club together and purchase a fine gobbler for breeding, and select the best hens. With care and attention there would soon be a marked improvement in their hardiness and size.

It is best to breed from birds two or three years old as they produce stronger and larger stock at this age. The time for setting the first eggs is in March or April, but the character of the season will influence this. The turkey's nest should be on the bare ground, free from danger of flooding during rain, and located in some quiet place. While sitting, special care should be taken that the hens are off their nests at regular periods. As turkeys are patient sitters, two broods can be hatched by one hen. A good plan is to set all hens at once, and give the broods of several to one hen. This allows the others to return to laying. Turkey eggs hatch in 28 days. When hatched the mother should be confined in a roomy coop, with a slatted front, open to the south, on a clean grass run. For the first 24 hours no food is needed, as the yolk of the egg from which the poult was hatched serves as nourishment for that period. Be sure that the hen and her brood are free from vermin. Lice are as destructive to turkeys as to chickens. Always dust with in-



sect powder before taking from the nest, and if you find lice on the heads of the poults, rub a few drops of sweet oil on their heads, or a mixture of two or three drops of carbolic acid in a teaspoonful of oil. For the first four or five days the food should be light. Hard-boiled eggs mixed with bread crumbs make a splendid food, and should be fed four or five times a day. Curd made from sour milk, with young onion tops cut very fine and mixed with it, is excellent. When the young are a week old they may be given some cracked corn or oats, or wheat grits. Boiled Indian meal can be used as a variety in feeding. Always give fresh, cold water two or three times a day, and, if possible, give milk as an occasional drink.

When the young are about three weeks old, the old bird may be let out with them every morning after the dew is off the grass, but they should be shut up again every evening. The great secret of turkey raising is



A FAMILY OF TURKS.

keeping the poults from being chilled. If they can be kept dry until they have thrown out the red on their heads, the chances for success are very bright, as they have then become quite hardy and may be allowed to roam at will.

When they get so that they can fly up to their roost they should be placed in the turkey-house. This house can be built in a variety of forms to suit the builder. It should be large and roomy, with broad perches of easy access from the ground. They should be locked up every night and made secure against dogs, foxes, etc. Feed every morning and night with a variety of food, and they will gather from the fields and woods sufficient numbers of grasshoppers and other insects to supply their noonday meal.

A turkey does not attain its full weight until the third year. Gobblers that are eight months old sometimes weigh from 23 to 29 pounds, and hens from 13 to 15. A great mistake is made by many when they sell their largest birds and save the smallest and last hatch for breeding purposes. This should never be done if you wish to produce a large and healthy stock.

Crested turkeys have been considered by some naturalists to be a distinct species; but all attempts to breed them true to this point have failed, and they must be considered as merely accidental, though showing a strong relationship or affinity between the turkey and the peacock. The birds that have hitherto been bred from have failed to produce crested progeny. Experiments have been made by the most skillful breeders in both England and America without any degree of success; the crest is, therefore, only an accidental "sport," and the bird is not a distinct species.

The American Bronze Turkey stands at the head of the poultry race, and is appropriately denominated "the king of domestic fowls." The grand proportions and enormous weight which these birds reach in late years seems almost fabulous. At two years old many specimens have weighed between 35 and 40 pounds, and yearling gobblers are not uncommon that weigh from 25 to 30 pounds. Hen turkeys at these ages will when in full breeding condition, weigh 18 to 20 pounds. This has been effected through judicious and wise selections.

The native wild turkey is still common in various parts of North America, and fine specimens are met with in the West and in Canada, while they are still found in small numbers in the Middle and Eastern States. The average size of the wild turkey is less than that of the domestic bird. "The grand size and beauty of this fowl," said Audubon, "and its value as a delicate and justly prized article of food, renders this the most interesting of the birds of the United States. The flesh is more delicate than that of the domestic turkey, and the Western Indians so value it that it is called 'the white man's dish.'" The plumage of the North American turkey is very brilliant, being of a metallic-bronze blue, which is made up of black, green, bay, and brown feathers. The cock is much the more showily plumed; the female being much duller in feather color. The Oscellated or South American wild turkey, is a different species, and more brilliant in plumage. This bird is not so well adapted to our climate as its North American congener, and is almost unknown in the United States and Europe, though it was probably raised in Mexico for centuries before the conquest of that country by the Spaniards, since when they invaded the land they found it in a domestic state.

### CHICKEN CHATTER.

Early-hatched pullets make the earliest layers.

Bulky food is as necessary for fowls as animal.

When the chick becomes chilled it dies. Thousands of chicks die annually from this cause.

If the farmer would devote a small portion of his time to his poultry, he would be better off financially.

One trouble experienced by beginners with incubators is that they have never given their poultry any attention and they practice this sort of negligence with the incubator.

Most people who sell eggs as a business for setting, try to have them good. They must do that if they expect to continue in business. As a rule, therefore, when eggs fail to hatch, we should carefully investigate the conditions before blaming the man from whom we purchased them.

Grit in some form is essential to ducks and should be kept before them at all times. Many overlook this fact and do not seem to understand that it is of as much value to them as it is to chickens. The sand used in the meshes tends to supply a certain amount of grinding material or grit to them, but does not fully satisfy them for digesting their food.

### When You Compare.

When you compare the Diseases of Poultry by Dr. Salmon with other books on that subject you will admit that none approach it in thoroughness, in illustrations, or in clearness. And yet we sell it for only 50 cents postpaid. GEORGE E. HOWARD & Co., Publishers, S. W. Cor. 8th and H Sts. N. W., Washington, D. C.



## POULTRY EXPERIMENTS.—I.

General Conditions—Composition of Foods—Foods Consumed, Condition-powder Experiment—Average Weight of the Fowls—Eggs per Month—Condition Powder for Egg-production.

## Effect upon Egg-Production of the Use of Condition Powder.

THE experiments with poultry completed since our last annual report were begun in the late fall of 1897, and extended through the winter of 1897 and 1898, and a part of them through the past summer and into the fall. The points upon which these experiments were designed to afford information are the following:

1. Effect upon egg-production of the use of condition powders.
2. Comparative value for egg-production of flesh or animal meal and cut fresh bone.
3. Comparison for egg-production of a wide nutritive ration with a narrow; or, in other words, of a ration in which cornmeal and corn were prominent with one in which these feeds were replaced wholly or in large part with more nitrogenous foods, such as wheat middlings, gluten feed, wheat and oats.
4. The influence of the presence of a cock with the hens upon egg-production.

## GENERAL CONDITIONS.

In all these experiments pullets purchased in Plymouth County and reaching us about the middle of October were used. These pullets were well-bred Barred Plymouth Rock, not fancy stock (*i. e.* as to feather), but bright, healthy stock, hatched in April. These pullets were evenly divided into lots of twenty each, being matched in sets of two lots as closely as possible. Each lot occupied a detached house, including laying and roosting-room ten by twelve feet and scratching-shed eight by twelve feet, with the run of large yards of equal size whenever weather permitted. The winter tests began December 12 and ended April 30. The latter part of March a few hens were removed from each house for sitters, the same number from each. Egg records of the separate lots were kept from the time laying began to the time of beginning experiments, for the purpose of affording an index as to the equality or otherwise of the matched pairs of lots. The hens were all marked with leg-bands, as a precautionary measure for the purpose of identification in the case of accidental mixture of fowls.

All the meals and the cut clover were given in the form of a mash, fed early in the morning. This was mixed the night before with boiling water until January 8, and fed at the temperature of about 70 degrees F. After January 8, the mashes were mixed with boiling water in the morning, and fed hot. At noon a few oats were scattered in the straw with which the scratching-sheds were littered. At night the balance of the whole grain was fed (also by scattering in the straw) one hour before dark. The fowls were given what whole grain they would eat up clean. Water, shells, and artificial grit were kept before the fowls at all times. About twice a week a small cabbage was given to each lot of fowls, this, like all other food, being weighed. The eggs from each lot were weighed weekly. The fowls were all weighed once each month.

No male birds were kept in any of the pens in the winter experiments, nor, indeed, in any except where the influence of the cock was the subject of experiment. Sitters, except those taken out, above alluded to, were confined in a coop until broken up, being meanwhile fed like their mates.

The prices per hundred weight for foods, upon which financial calculations are based, are shown below:

|                       |        |
|-----------------------|--------|
| Wheat.....            | \$1 75 |
| Oats.....             | 1 00   |
| Wheat bran.....       | 60     |
| Wheat middlings.....  | 75     |
| Gluten feed.....      | 2 00   |
| Animal meal.....      | 2 00   |
| Cut clover rowen..... | 1 50   |
| Cabbage.....          | 25     |
| Cut bone.....         | 2 00   |
| Gluten meal.....      | 80     |
| Cornmeal.....         | 85     |
| Corn.....             | 85     |

## Composition of Foods (Per Cent).

| KIND.                 | Moisture. | AIR DRY FOOD CONTAINS— |         |        |         |       |
|-----------------------|-----------|------------------------|---------|--------|---------|-------|
|                       |           | Ash.                   | Prot'n. | Fibre. | Ext'ct. | Fat.  |
| Whole wheat.....      | 10.51     | 1.85                   | 12.64   | 2.55   | 71.01   | 1.44  |
| Whole oats.....       | 8.06      | 3.21                   | 11.96   | 11.64  | 61.48   | 3.65  |
| Cut clover rowen..... | 9.80      | 7.36                   | 17.88   | 22.18  | 39.70   | 3.08  |
| Wheat middlings.....  | 9.25      | 4.63                   | 17.52   | 9.91   | 53.11   | 5.58  |
| Animal meal.....      | 5.06      | 39.26                  | 37.66   | 1.01   | 5.56    | 11.45 |
| Whole corn.....       | 12.11     | 1.31                   | 9.55    | 1.90   | 71.26   | 3.87  |

| KIND.            | Moisture. | DRY MATTER CONTAINS— |         |        |         |       |
|------------------|-----------|----------------------|---------|--------|---------|-------|
|                  |           | Ash.                 | Prot'n. | Fibre. | Ext'ct. | Fat.  |
| Bran.....        | 12.72     | 6.96                 | 18.01   | 11.65  | 57.92   | 5.46  |
| Gluten feed..... | 9.10      | 0.92                 | 24.59   | 7.17   | 63.43   | 3.89  |
| Cornmeal.....    | 13.43     | 1.46                 | 11.01   | 1.96   | 81.44   | 4.13  |
| Cabbage.....     | 89.45     | 7.94                 | 25.69   | 9.31   | 54.76   | 2.30  |
| Cut bone.....    | 26.29     | 21.50                | 20.62   | .....  | .....   | 31.38 |
| Gluten meal..... | 8.77      | 1.50                 | 37.64   | 3.87   | 54.59   | 2.40  |

## 1. EFFECT OF CONDITION POWDER UPON EGG-PRODUCTION.

Each coop contained twenty pullets at the beginning of the experiment; the fowls in the no-condition-powder coop weighing 103 pounds, and having laid, November 18 to December 12, 46 eggs; the fowls in the condition-powder coop weighing 97 pounds, and having laid 14 eggs. The rations of the two lots of fowls were the same, except to the morning mash of one lot was added condition powder to the full amount recommended by makers; viz., 3 scoops (provided for measuring) heaping full. This amount of condition powder was enough to make the mash several shades darker than the one without it, and to impart a strong odor. Being mixed sometimes in the room where milk was standing, it imparted a flavor to butter made therefrom which was recognized by our expert butter maker, who knew nothing concerning its use, and who worked in rooms a quarter of a mile distant, to which the milk was taken. The pen receiving the powder consumed during the winter four two-pound cans of it, costing at retail \$4.

Both lots of fowls were healthy throughout the entire test. Two fowls were stolen from the lot receiving no condition powders on the night of March 27. One soft-shelled egg was laid by a fowl receiving condition powder. The tables give all details necessary to a comparison of the result:



*Foods Consumed, Condition-powder Experiment.*

| KINDS OF FOOD.    | AMOUNT.           |     |                     |     |
|-------------------|-------------------|-----|---------------------|-----|
|                   | Condition Powder. |     | NoCondition Powder. |     |
|                   | Lbs.              | Oz. | Lbs.                | Oz. |
| Wheat .....       | 269               | 0   | 250                 | 0   |
| Oats .....        | 155               | 0   | 152                 | 0   |
| Bran .....        | 44                | 0   | 44                  | 8   |
| Middlings .....   | 44                | 0   | 44                  | 8   |
| Gluten feed ..... | 44                | 0   | 44                  | 8   |
| Animal meal ..... | 52                | 0   | 52                  | 8   |
| Clover .....      | 43                | 0   | 44                  | 8   |
| Cabbage .....     | 15                | 15  | 15                  | 3   |

*Average Weights of the Fowls (Pounds).*

| DATES.           | Condition Powder. | NoCondition Powder. |
|------------------|-------------------|---------------------|
| December 12..... | 4 85              | 5.15                |
| January 31.....  | 5.21              | 5.41                |
| February 25..... | 5.44              | 5.53                |
| March 30.....    | 5.25              | 5.48                |
| April 30.....    | 5.11              | 4.88                |

*Eggs per Month (Number).*

| MONTHS.       | Condition Powder. | NoCondition Powder. |
|---------------|-------------------|---------------------|
| December..... | 28                | 59                  |
| January.....  | 90                | 66                  |
| February..... | 86                | 101                 |
| March.....    | 217               | 288                 |
| April.....    | 298               | 291                 |
| Totals .....  | 719               | 745                 |

*Condition Powder for Egg-production (December 12 to April 30).*

|                                               | Condition Powder. | NoCondition Powder. |
|-----------------------------------------------|-------------------|---------------------|
| Hen days.....                                 | 2,751             | 2,656               |
| Gross cost of food.....                       | \$8 91            | \$8 59              |
| Cost per hen day.....                         | \$0 0032          | \$0 0032            |
| Total number of eggs.....                     | 719               | 745                 |
| Cost per egg, not including powder.....       | \$0 0124          | \$0 0115            |
| Cost per egg, including powder.....           | \$0 0180          | \$0 0115            |
| Eggs per hen day.....                         | .26+              | .28+                |
| Total weight of eggs (pounds).....            | 88.08             | 90.80               |
| Average weight of eggs (ounces).....          | 1.96              | 1.95                |
| Dry matter to produce 1 egg (pounds).....     | .82               | .77                 |
| Dry matter consumed per hen day (pounds)..... | .22               | .22                 |
| Nutritive ratio.....                          | 1:4.6+            | 1:4.6+              |
| Sitters.....                                  | 8                 | 14                  |

Eggs from both lots of fowls were tested under numbers by two families. One family reports no difference; the other found the eggs from the hens not getting the powder "much preferable" to the others.

## CONCLUSION.

A study of the figures showing results shows that the hens not getting the condition powder laid more eggs, of practically the same average weight. The food required to produce a single egg was less, and the cost was very materially less. The average weight of the fowls not getting the powder at the close of the experiment was about one-quarter of a pound less than that of the other.

We have now carried through three experiments to test the value of condition powder for egg-production. The differences have in every case been small. In favor of the condition powder we have one experiment, against it we have two experiments. It is not, however, my disposition to claim that the powder is in-

jurious, but simply that it is not beneficial. This the four experiments, carried out with the utmost fairness and with every care, certainly prove. *In the light of these results, it is believed that poultry keepers throw away money expended for condition powders.*—*Report of the Massachusetts Agricultural College.*

## WARM WEATHER MANAGEMENT.

When the weather was cold every crack was closed to prevent draughts. Remember that now more ventilation is necessary and the houses should be regulated accordingly. There must be an abundant supply of fresh air in the house. If the fowls have been confined it is necessary that the yards also be cleaned. Spade them up and mix with the soil fresh gravel, sand, and lime. If the birds are on a range, it will be well to clean around the house door and feeding-places, and haul the scrapings off to the garden or orchard. Provide ample shade for the birds during the summer days, as they need it for protection against the hot rays of the sun. Mate up the pens of breeding birds as early as possible and be ready to hatch when the weather is favorable. Place the best birds in the pens, and breed from those only that are known to be in perfect health. Vigorous adult birds give chicks that develop into fine birds for the next season's layers.

When fowls are allowed free range in warm weather, it is not essential to feed them more than once a day, as they gather food which nature supplies and is all that is needed for their food during this period. But when fowls are kept confined a study of their feeding is of as much importance in summer as in winter. When the weather is cold it requires more food to sustain life than it does during the heated term. Do not allow the fowls to become overfat, as disease is likely to occur. Avoid all fat-forming food during this period and keep them in a thrifty, vigorous state by feeding such foods as are not heating. Feed liberally of the bran mash in the morning, and use wheat and oats as grain foods during the day. Cooked vegetables and cut grass may be used during this period, as they are bulky and not stimulating. Milk, buttermilk, and clabber are good drinks and the fowls relish them.

At no season of the year should more attention be paid to the drinking water than in summer. The vessels should be rinsed in the morning and filled with fresh water. Place the vessels in a location where the sun can not reach them, and, when possible, change the water several times each day. Occasionally put in the water a few drops of carbolic acid as a safeguard against disease, and during the molting period a small amount of tincture of iron should be used as a tonic. You can not be too careful about this, as pure, cool water is a great help to the fowls during hot weather.

## WHEN YOU COMPARE.

When you compare the Diseases of Poultry by Dr. Salmon with other books on that subject you will admit that none approach it in thoroughness, in illustrations, or in clearness. And yet we sell it for only 50 cents postpaid. GEORGE E. HOWARD & Co., Publishers, S. W. Cor. 8th and H Sts. N. W., Washington, D. C.



## THE FERTILIZATION OF EGGS.

At what stage in the manufacture of a fertile egg is the male principle or spermatozoa deposited in the egg?—

O. W. M.

To properly illustrate the reply to this inquiry, the accompanying engraving is reproduced from the forthcoming book by the writer on "The Diseases of Poultry." In this engraving the ovary is seen at *a*, the spherical bodies being the eggs in different stages of development. It is only the yolk or yellow which develops in the ovary, this being the true ovum or egg. The ovum while it remains in the ovary is covered by two membranes which constitute what is known as the *calyx*. This calyx or ovarian capsule is connected with the rest of the ovary by a contracted base or pedicle through which the circulation is maintained.

Numerous bloodvessels are seen upon the surface of the calyx, and as the egg matures a white transverse line makes its appearance across the most prominent part, and this line on examination is found to be almost destitute of vessels, such as exist being very minute and scarcely visible. This light-colored band is called the *stigma* and begins to appear when the ova are about an inch in diameter. It increases in breadth, and the membranes become thinner as the ovum acquires its full size.

As the egg becomes fully mature, the capsule is ruptured along the stigma, this process being probably aided by pressure of the infundibular portion, *c*, of the oviduct. An empty calyx from which an egg has recently escaped is seen in the engraving. The egg when free from the calyx passes into the infundibular opening of the oviduct *c* and is propelled in a rotary course by the peristaltic action of this tube. It has not gone far before the lining membrane of the oviduct secretes a dense layer of albumen which envelops it and is continued from each pole in the form of filaments which become twisted in a spiral by the rotary movement with which it progresses. The dense layer of albumen is called the *membrana chalazifera* and the filaments are known as the *chalaza*. The illustration shows an egg at *f*, at the time the first layer is deposited.

The egg is forced slowly along the oviduct and two more layers of albumen are deposited upon it. The first is only of medium density and the second still more soft and watery.

When the narrower part of the oviduct, called the isthmus, is reached dense layers of albumen are again secreted which form the *membrana putaminis*, or thin white skin which is familiar to all as being located just within the shell.

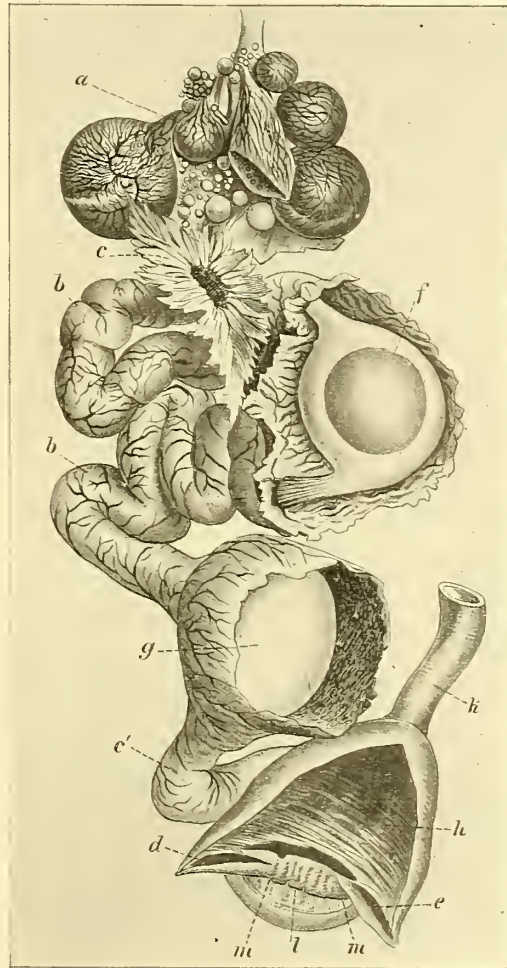
After this, the egg, now of ovate form with the small end towards the cloaca, passes into the uterine or shell-forming dilatation, where a thick, white fluid is secreted and deposited upon the *membrana putaminis*, and rapidly condenses to form the shell (see *g* in the illustration).

Having given this preliminary description of the development of the egg, the reader is prepared for a discussion of the question asked by our correspondent. In copulation the spermatozoa are deposited in the posterior opening of the oviduct. From this point they make their way along the tube in the opposite direction from that traversed by the egg. They are able to reach both the infundibular opening of the oviduct and the surface of the ovary.

It is plain that the spermatozoa are most likely to penetrate the yolk at the time when its coverings will offer least resistance to their movements. Some have supposed that the egg is fertilized before it leaves the calyx, but this is improbable, because it is then covered by two layers of dense and impenetrable membrane. It is, also, improbable that the spermatozoa can gain access to the yolk after the formation of the *membrana chalazifera*. For these reasons, it appears safe to conclude that impregnation occurs between the time the calyx is ruptured and the first dense layer of albumen is deposited.

If this conclusion as to the time of impregnation is correct, there can be but a comparatively short time during which the egg is in a condition to be fertilized. In order that fertilization should occur, it is necessary that the spermatozoa should be present in the anterior portion of the oviduct. The time required for the fertilizing elements to reach that part of the oviduct in sufficient numbers is not accurately known, and, no doubt, differs considerably in different cases. It is generally admitted, however, that

some days must elapse after the hens are placed with the males, before the eggs can be relied upon for hatching purposes. There is, also, more or less uncertainty as to the length of time the spermatozoa retain their vitality and the period that eggs will be fertilized after the withdrawal of the male. In this respect, also, there is no doubt much difference with different individuals and under various conditions. From one to two weeks is the usual period, but the extremes have not been definitely determined.—DR. D. E. SALMON.



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# The Feather, Washington, D. C.

Published the 15th of each Month by  
GEORGE E. HOWARD & CO.

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GEORGE E. HOWARD, Editor.

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Write your name in full, giving full post office address plainly, so there will be no mistakes.

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MAY, 1899.

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## A Pleasant Announcement.

The announcement of Dr. D. E. Salmon's great book on "The Diseases of Poultry," will be received with as much pleasure by our readers as it is for us to announce its issuance. We can truthfully say that this book "fills a long-felt want." It is the very book that has so long been wanted by the great masses of poultrymen to enable them to breed and care for their fowls in the light. It is not until now that this great work could be presented to the public, and we feel confident it will be hailed with delight and enthusiasm by breeders of poultry everywhere. It is a text book on the diseases of poultry, and is of more value to the breeder than any other work published. Poultry can not be bred to standard requirements without the Standard, and neither can poultry be successfully and profitably bred, without knowing how to care for and avoid the many diseases and complaints the fowls are subject to. This book will save you many dollars in your business, and will, no doubt, be the means of your success, which might otherwise have been your failure. The first edition of 5,000 copies will soon be exhausted, and we urge upon our readers the necessity of sending in their orders as promptly as possible. You will see by the ad on the next page what this great book contains, and the special inducements offered to our readers. Remember, there is no further reason for groping in the dark, when you can have the highest authority in the world tell you what is best to do for your fowls to insure success.

\* \* \*

## A Busy Season.

Reports from all sections indicate that this has been a busy season for poultrymen, and that more stock and eggs have been sold than heretofore. This is encouraging and we are pleased to note the continued increase of the poultry industry. It is a vast enterprise and bids well to sustain its prestige for many years yet to come. Notwithstanding it being the largest of all agricultural industries, it will still grow to more immense proportions. Each year adds to its value. New breeders and new fanciers are joining the ranks daily, and, as a consequence, the demand for fine poultry continues unabated. The good, busy times are returning, and we may hope to see great activity in the poultry line during the coming year. Do your best to hatch all the chicks you can; the demand for good stock next fall will be very large, and you should be prepared to get your share of the business while it is going.

\* \* \*

## Our Supplements.

We publish this month a colored supplement of a Black Minorca male. We believe the breeders of these popular fowls will agree with us that this is a most perfect representation of the breed. It has been our aim to give the true type, symmetrical outlines, graceful carriage, and correct coloring of the plumage, as is found in the bird in true life. How well we have succeeded we leave it to our readers to decide. This picture is the sixth of the series of twelve that we have promised our readers during the year, and we hope to continue the work on the same lines as heretofore. We must call attention to the fact that it is impossible to supply back numbers of THE FEATHER containing these

supplements, as the editions are entirely exhausted in a short while after publication. The best way is to send in your subscription without further delay, as we are compelled to decline all orders for back numbers. Those wishing to subscribe now can do so by sending us fifty cents for a year's subscription to THE FEATHER and we will send you free the full set of six pictures as published in ad on this page. Read it carefully and take advantage of this most liberal offer.

\* \* \*

## Do the Work Well.

We are in the midst of the breeding season. At this period all energies are put forth to make the most of the time, and turn in a good report when the season is over. Time is limited, and as is the case always, it is too short when one is in a hurry. It is best not to hurry with the poultry business. It is something that can not be hurried and be assured of success. There are many things to do in the poultry-yard, but these things must be done, and properly too, if the business is not to be a failure. Consider each little trifle as a jewel in your experience; attend to the comforts of the birds, and promote their welfare the best you can. Provide proper food, pure water, and keep the chicks growing. Push the youngsters forward, and attend their every want that they may develop rapidly, and grow into strong, healthy fowls that will be worthy the time and patience spent in their rearing.

\* \* \*

## A Great Success.

THE FEATHER LIBRARY has proven a great success. The first two numbers have been cordially received and commended by our readers. The sales of these books have exceeded our calculations.

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4. White Wyandottes.
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6. Black Minorca Male.

We will send the complete set of six pictures as above, mailed flat to any address in the United States on receipt of fifty cents.

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and we are glad to announce a new edition of each. "The American Fancier's Poultry Book" was the first of our series of books, "Money in Squabs" was number two, and the third is Dr. D. E. Salmon's great book on "The Diseases of Poultry." These are practical, reliable, and trustworthy publications that all poultry and pigeon breeders should have. These books are replete in valuable information and save many dollars' worth of experience in finding out what they tell you beforehand. We have in preparation other equally as valuable publications. J. C. Long's complete Pigeon Book is in course of preparation, as is Myra V. Nory's practical and thorough work on "Pocket-Money Poultry." It is our aim to publish the best things of the greatest help to our readers, and we believe the manuscripts now in hand are unsurpassed for usefulness and practical worth to breeders of poultry and pigeons.

\* \* \*

#### The Advanced Rate.

Advertisers should note the fact that our new scale of rates goes into effect July 1, and should hasten to make their contracts for advertising during the coming year before that time. The best of results have been obtained by the patrons of our advertising columns, and for the cost of advertising, no cheaper or better medium is offered for reaching the buying public. Those who make contracts for space now can get better terms and conditions than later, thereby saving money—this saving is a profit that can be placed on the right side of the balance sheet.

#### Complimentary.

THE FEATHER is the swellest paper out, and for illustrations can't be beat.—W. W. CARTLAND, Cochran, Pa.

"The American Fancier's Poultry Book" received. It is very fine. Please accept my thanks for same.—HERBERT J. PECKHAM, Newport, R. I.

Your supplements are beautiful, and the descriptions written about the different breeds are fully up to the illustrations.—REV. CHAS. P. KEHL, Red Lion, Pa.

Your paper has improved continuously, and your supplement with each issue is well worth a whole year's subscription.—F. S. BULLINGTON, Richmond, Va.

I like THE FEATHER very much and could not afford to be without it, as the ideas derived from it pay me many times over. Please let me know when it is time to renew.—M. A. BRAYTON, Taunton, Mass.

Keep my ad going. Don't let it stop. Your paper is doing me lots of good. You must cover the earth. Have received orders through your paper from Florida, Montana, California, and Canada, also nearer home.—O. W. TAYLOR, Tyrone, Pa.

I am just home from a long trip west, and found the two last copies of THE FEATHER to greet me. I can not speak in too high praise of it, and the fine colored illustrations you are sending out each month. I have read nearly all publications on poultry for the last twenty-five years, but consider THE FEATHER among the best.—S. A. ELWELL, Brooklyn, N. Y.

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Peritonitis, Inflammation of the Peritoneum—Chronic Peritonitis, Ascites, Abdominal Dropsy—Diseases of the Liver—Congestion of the Liver—Inflammation of the Liver, Hepatitis—Icterus, Jaundice, Biliary Repletion—Atrophy or Wasting of the Liver—Fatty Degeneration of the Liver—Fatty Liver—Tuberculosis of the Liver, Spleen, and Peritoneum.

### CHAPTER VI. DISEASES OF THE ORGANS OF URINATION AND REPRODUCTION.

Brief Description of the Organs of Urination—Parenchymatous Nephritis, Inflammation of the Kidneys—Abscess of the Kidneys—Obstruction of the Cloaca by Urinary Concretions—The Male Organs of Reproduction—Hypertrophy or Enlargement of the Testicles—Cancer of the Testicles—Fatty Degeneration—The Female Organs of Reproduction—Atrophy of the Ovary—Tumors of the Ovary—Gangrene of the Ovary—Inflammation of the Oviduct—Prolapsus or Eversion of the Oviduct—Difficult Laying, Egg Bound, Obstruction of the Oviduct—Gangrene of the Oviduct—Rupture of the Oviduct—Cloacitis, Vent Gleet—Anomalies in Egg Production—Egg Incubated in the Oviduct—Parasites in Eggs—Sanguineous Eggs—Eggs Without Shells—Eggs With Two Yolks—Incomplete or Aborted Eggs—Eggs Within Eggs.

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Egg Eating—Feather Eating—Feather Pulling.

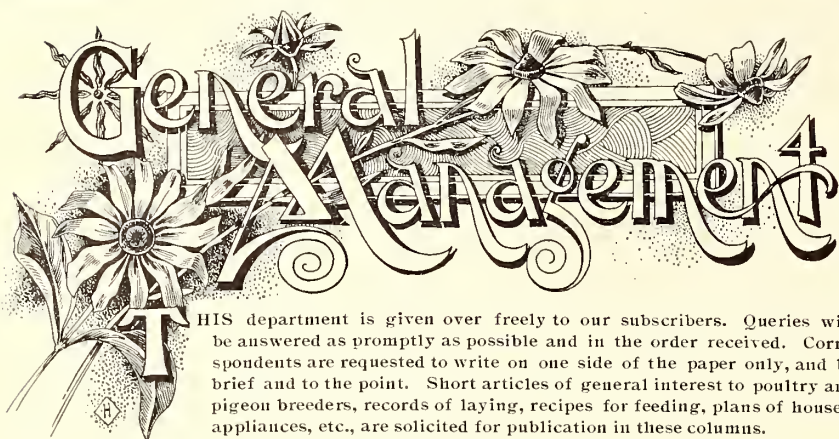
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THIS department is given over freely to our subscribers. Queries will be answered as promptly as possible and in the order received. Correspondents are requested to write on one side of the paper only, and be brief and to the point. Short articles of general interest to poultry and pigeon breeders, records of laying, recipes for feeding, plans of houses, appliances, etc., are solicited for publication in these columns.

### White Wyandottes.

*Editor The Feather:*

We will not insist that the White Wyandottes are the best fowls on earth, and all other breeds are quite their inferior in every respect, for the main reason we are breeding them exclusively. We have had several other varieties in years gone by, all of them we much liked and admired, and all of them always gave fair returns on the financial side. We also much admire and honestly believe that many breeds we have not bred are most excellent fowls and would do well for us or any one who would give them a chance. Our reasons respecting our admiration for the White Wyandottes, are, first, because they are white; second, their low, small combs in this cold climate are never frosted; third, they produce a good supply of eggs every month in the year, and the supply is quite even; fourth, they care well for themselves, are tame, sit well, are splendid mothers, and for broilers they stand at the head of all breeds. This has been tested by long and tried experience, and they are acknowledged by our best authorities to be the best quailer yet known.

Some years we have kept more than one breed on the farm. I always favor one breed of chickens only; but other members of our family, being fanciers also, had each a chosen breed, but as time went on all wearied of the several breeds, and finally all decided upon the White Wyandotte as our chosen and only breed henceforth. We are all more and more pleased with them as time rolls on, and we could not be induced to keep another breed with them. I really feel sorry for people when I hear them say they are going to start out with two or more varieties. I know one variety will keep any ordinary family busy and give good returns to their owner if properly handled. We keep turkeys, ducks, and geese, which we much prefer to several varieties of chickens. The feathers from the ducks and geese quite pay their way, if in no other way. But among them we most admire our White Wyandottes.

MRS. PHIL. CROCKETT.

### A Three Month's Record.

*Editor The Feather:*

As you state in your valuable paper that you would be pleased to have my record that would cover a greater period of time, I give it below:

The nine Silver Spangled Hamburgs laid during the month of January as follows: 2, 6, 5, 1, 6, 5, 3, 4, 6, 4, 2, 6, 5, 4, 4, 4, 5, 4, 3, 5, 6, 3, 5, 6, 4, 5, 7, 4, 5,

5. Total eggs laid for the month, 138; average per hen, 15½ eggs. February, 7, 2, 6, 7, 4, 7, 5, 5, 8, 3, 6, 7, 4, 5, 6, 5, 4, 7, 6, 4, 8, 7, 5, 5, 7, 6, 4, 4. Total eggs laid for the month, 154; average per hen, 17-9 eggs. March, 5, 7, 3, 5, 7, 3, 5, 6, 6, 4, 8, 6, 2, 10, 6, 5, 5, 5, 4, 3, 4, 2, 5, 2, 7, 1, 6, 6, 5, 7, 6. Total eggs laid for the month, 156; average per hen, 17½ eggs.

The six Buff Plymouth Rock hens laid during the month of January as follows: 2, 2, 3, 1, 4, 3, 4, 1, 5, 3, 3, 3, 3, 5, 4, 4, 3, 4, 3, 4, 4, 3, 5, 2, 5, 3, 5, 3, 5, 6, 2. Total eggs laid for the month, 107; average per hen, 21-2-5 eggs. February, 5, 4, 4, 4, 5, 4, 4, 3, 2, 4, 2, 3, 2, 4, 1, 3, 2, 3, 4, 3, 3, 4, 3, 4, 5, 6, 2. Total eggs laid for the month, 95; average per hen, 15-5-6 eggs. March, 5, 4, 6, 3, 6, 5, 4, 4, 5, 5, 3, 5, 5, 5, 2, 4, 3, 3, 3, 3, 4, 2, 2, 3, 4, 3, 3, 2, 2, 3, 3. Total eggs laid for the month, 114; average per hen, 19 eggs.

I bought one Buff Rock the last of January and she laid one of the eggs on the 30th of January, so I only count 5 hens for January and 6 hens for February and March. No. 1 hen was broody on the 5th of February and started laying again on the 26th, and No. 2 hen was also broody on the 14th of February and began laying again on the 27th.

My house is 10x7 with a partition in the middle that gives each lot house room 5x7, and yard 7x21. I feed in the morning a mash one part bran, one part corn chops, one part oat chops, one part shorts. At noon wheat and oats equal parts mixed. Evening, corn, wheat, and oats equal parts mixed.

I will give you my record at the end of the year again. I think the Hamburgs layed well for the kind of weather we had, twenty degrees below zero at times. Here is the record for No. 3, the hen that I bought, from the 30th of January up to date, she layed 50 eggs. She layed 29 eggs in 31 days which I think is very good laying. She was broody once which only lasted four days.

HIRAM DEMMY, JR.

### A Good Choice.

*Editor The Feather:*

Through the kindness of a neighbor, one of your subscribers, I have one of your journals, and am so well pleased with it that enclosed you will please find my subscription for which please send me THE FEATHER one year. I am just starting in the poultry business, and have twenty-nine hens. I have about 100 eggs hatching, forty-two of which are Brown Leghorns' eggs from nearly pure stock. I want to save all the pullets and mate them with a pure-

blood Brown Leghorn cock. What do you think of my choice, and also of my plan? Please answer through your journal if you answer such questions.—F. R. S., Reading Center, N. Y.

We think the choice a good one and your plan equally as good. Brown Leghorns are grand birds.—Ed.

### Enteritis—Going Light.

*Editor The Feather:*

Will you please let me know how to prevent "going light"? I keep Homing Pigeons and have had about eighteen cases of this complaint this year. They appear at first to have diarrhea, and droop around; their crop feels dried up, and has just a few grains in it. The birds seem to have no appetite; strain themselves as if constipated, but their droppings are soft and watery. What can I do with them?—H. G. F., Baltimore, Md.

From what you say we think your birds are suffering from enteritis, or inflammation of the bowels, which is no doubt the result of a chill, or some other irregularity. Place the affected birds in a warm place, and give a few drops of paregoric two or three times a day. If they do not improve in a day or so under this treatment, give them one or two cod liver oil capsules, and a grain of quinine daily, and feed a little hemp seed with the other food, as for "going light." Plucking the tail-feathers is considered a splendid help for birds suffering with this disease.

### The Hens are Lousy.

*Editor The Feather:*

Please tell me the name, cause, and remedy of the following disease. The symptoms, as far as I can learn, are as follows: The fowls grow light in weight, lose their appetite, and sit about with their heads drawn either up or down, their combs turn colorless, and they stagger in their walk, and in two or three days die. Also tell me why air-slacked lime should not be put in poultry-houses.—W. W. E., Buckeystown, Md.

This is not a disease. It is a complaint. The symptoms are those of fowls that are lousy. If you will examine them you will, no doubt, find them covered with vermin. We suggest you follow some of the various remedies that are given in THE FEATHER, and get rid of them as quickly as possible. Clean out the houses thoroughly, burn all the litter, give both the interior and exterior a heavy coat of whitewash, with carbolic acid in it, and use kerosene on the roosts, in the nests, and all corners where the mites may be hidden. Use plenty of insect powder on the hens, dust them well, don't be afraid of it, but cover them with the powder, it will do them good. Air-slacked lime is used as a disinfectant, a purifier around henhouses.

### It is Roup.

*Editor The Feather:*

A friend has just handed me a copy of THE FEATHER for March, 1899, and I am much pleased with it and desire to become a subscriber. Enclosed is 50 cents for which please enter my name beginning with the April number. I am a pigeon fancier of some experience and have a fine collection of birds, but am losing a great many squabs with something like roup as found in poultry. The disease first makes its appearance in the throat of the young birds something like a cankerous sore, afterward develops a deposit of some matter, salmon in appearance, which soon closes up the windpipe and the bird dies, of course. Can you tell me what it is and suggest a preventive and cure?—O. T. M., Enfauila, Ala.

The treatment which Mr. Long recommends for roup in his book "Money in Squabs," page 61, a copy of which has been mailed you, should be followed in full. For the benefit of our readers who have not a copy of this book we quote the following: "Roup is a disease of a catarrhal nature, affecting the mucous membranes of the nostrils,



## WORK FOR THE MONTH.

head, and throat, and is usually accompanied by a profuse discharge of sticky mucous matter from the nostrils, which, if the disease is neglected, becomes very offensive. It is very contagious, and should be checked as soon as it makes its appearance by removing the sufferers to a distance, as if left to fly around they would soon contaminate the most of the flock. It seems to be miasmatic in its nature, as it makes its appearance suddenly, sometimes affecting a number at once, and when they have been in no way exposed to its influence. Sudden changes of temperature with damp and chilly conditions are particularly favorable to its appearance. On the first indication of difficult breathing give a pill, about the size of a medium-sized pea, of butter and black pepper, equal parts, and swab the throat with a solution of chlorate of potash. Should there be a discharge of mucus, wash the nostrils and inside of the mouth with a solution of peroxide of hydrogen; this is said to be a sovereign remedy for roup. Dry quarters, protection from draughts, and an occasional use of a disinfectant will do much to keep this scourge at bay.

### Write Them.

*Editor The Feather:*

Through your excellent paper will you please inform me there a secretary or secretaries of Homing Pigeon clubs in the neighborhood of Newark, N. J.?—H. A. G., Bloomfield, N. J.

Write Messrs. George H. Bowerman, Wm. Book, Jr., 145 Magazine St., H. J. Maynard, or Edmund Beck, Jr., 133 Hamburg Place, all of whom live in Newark, N. J., and are prominent breeders and flyers of Homing Pigeons. They will give you the information asked for.

### House Covered With Mites.

*Editor The Feather:*

Please tell me some good remedies for mites. They are all over my laying-room. I have burned hay in it to kill them, but it did not do any good. I put oil in the room, but it did not do much good. If you will please tell what to do to get rid of them I will be obliged to you. Tell me what to put on my hens. The place is covered with mites.—A. J. K., Galveston, Texas.

The article "Parasites and Poultry" published in this number will help you out of your difficulty. Read it carefully and follow accurately Mr. Spink's instructions.

### About Pigeons.

*Editor The Feather:*

Will you kindly answer the following questions in your valuable paper? 1. How many pigeons will a loft 15x10x8 feet accommodate nicely? 2. Will a hen or cock raise the young if either die? 3. Is it good to let pigeons have all the grain they can eat? 4. What is the best time a pigeon ever made for a distance of a hundred miles? 5. Is it best to fly pigeons alone or altogether?—C. C. S., Little Falls, N. J.

1. Your loft will accommodate twenty-five pairs of pigeons. 2. As a rule either of the adult pigeons will raise their young, if an accident befalls one of them. 3. Yes. Keep the grain always in hoppers in the loft, a pigeon seldom eats too much. 4. We do not call to mind the best time made for 100 miles. 5. Fly them together.

### You Will Regret It.

You will regret it if you do not order now and make sure of an advance copy of Dr. Salmon's valuable book on Diseases of Poultry. Price 50 cents postpaid. GEORGE E. HOWARD & Co., publishers, S. W. Cor. 8th and H Sts. N. W., Washington, D. C.

Summer has now begun in earnest. Warm weather will make things uncomfortable in the poultry-yard if provisions are not made for shade. Shade in summertime is to the fowls what sunshine is in wintertime. The fowls do not need the food that has been fed during the cold months. They should be fed a mash in the morning of bran, ground oats or ground wheat; the evening meal should be whole wheat or oats. Green stuffs should be fed abundantly, and raw, lean meat should be given at least twice a week. This ration is for fowls in confinement; when on range, they need only to be fed the grain food before going to roost. The early-hatched chicks should be kept growing, and the culls from the early broods should be marketed. Separate cockerels from pullets, as they will grow faster and mature earlier. Provide fresh, cool water for the birds; they need it, and nothing is more detrimental to their health than stale, dirty water.

| 1899 |    | JUNE |    |    |    |    | 1899 |
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### Eggs Don't Hatch.


*Editor The Feather:*

Will you kindly tell me what is the reason my White Wyandotte eggs do not hatch? I am raising White Wyandottes for general purposes, and have a flock of fifteen mated with one rooster. I get ten eggs out of the fifteen hens every day, but for some reason, two or three settings placed under hens in March did not contain a germ. The rooster had been with them since January 1st. From the last setting, only one chick was hatched and that from a Silver Laced Wyandotte egg, that a hen by some means got in the yard and laid with the White ones. Last season the same hens laid well and I had great success for a beginner. The former owner said the fowls would be two years old this year. I feed them oats, corn, bran, loft chaff, crushed bone, and meat, provide fresh water and grit and they are in a yard that has wheat sowed in it. Nearly every egg was rotten or a yellow nasty liquid. The nests are made of excelsior, dusted with lice powder; the hens were dusted also, and legs rubbed some time previous to putting the eggs

under them. I am a new subscriber of your paper and am very much pleased with it. One does not have to wade through a big mass of poultry ads to find what they want. How would it do to mate a young cockerel with these hens and the present rooster with the pullets? When can pullets' eggs be used for setting purposes?—L. L., Spencer, Ind.

It is our opinion that the cock is deficient in stamina, lacks vitality, and is the cause of all your troubles. The fact that the Silver Laced Wyandotte hen's egg hatched bears out this opinion. We would suggest that you do away with your cock bird, and get a good, strong, and vigorous cockerel, and mate him with your hens, as you suggest, but I would not use your cock at all. Pullet eggs are used for hatching purposes after the first few have been laid.

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## WHITE WYANDOTTE

Willowcrest Poultry Yards,  
GOSHEN, N. Y.

J. E. WHITE, Manager.



**Sore Eyes Again.***Editor The Feather:*

I am raising poultry and my fowls are affected with a disease which I hope you can give me a remedy for. The fowls have sore eyes, and a swelling around the lids which are very much inflamed. Their eyes run and they have a rattling in their throat.—C. C., Paterson, N. J.

See article, Contagious Catarrh—Sore Eyes, published in THE FEATHER for last March, page 216.

**Roosters Caring for Chicks.***Editor The Feather:*

Please answer through the columns of your paper if roosters can be trained to take care of chicks, and how. I think your paper is the best I read.—J. L. B., New Orleans, La.

We never heard of an instance where the "rooster" cared for chicks.

**Cold or Gapes.***Editor The Feather:*

Will you kindly inform me, if possible, what is the cause of my old turkeys always sneezing like a chicken with the gapes? They do not appear sick and are laying. I have had the trouble for the last two years, and lose most of the young. I can find no trace of roup in their mouths or throats. Will their eggs be fit for hatching? Would like to know of a cure for them.—A SUBSCRIBER, Gloucester, Va.

It is, no doubt, a cold in the head, which may be caused by exposure to cold storms, or probably from draughts. Anoint their heads with sweet oil and keep them sheltered for a while. Neglected colds lead to roup, and of this you must be careful. It may be they have the gapes, and it would be well for you to watch them carefully for this complaint. The young birds die rapidly when affected with gapes. If the birds have only a cold in the head there is no reason why the eggs should not be used for hatching, but if the birds are affected with roup do not use them under any circumstances.

**Food for Chicks.***Editor The Feather:*

I, like Mr. H. C. Schwab, am a Light Brahma crank, and your grand picture made us both feel good. Both of our pictures were framed the same day they reached us, in fact, the same hour. Your picture represents them as they are, and not as some others represent them to be. Will you please tell me if the following is a good menu for chicks in the brooder? In the morning, a warm mash of wheat, bran, and cornmeal, mixed with a little bonemeal, Smith & Romaine's Boiled Beef and Bone, or Deodorized Blood Meal; noon, wheat scattered in litter; night, good feed of cracked corn. Please answer through your valuable paper.—R. A. W., Birmingham, Mich.

We would suggest that you do not feed a mash to your chicks, as wet or sloppy food should be avoided as much as possible. The following is a good mixture for young chicks: Give the old hen a good meal of whole corn before placing the chicks with her, but don't give the chicks anything for the first twenty-four hours. For the first feed give the little fellows dry rolled oats or bread crumbs every two hours for the first week. Feed what they will eat up clean and do not leave any on the ground to foul. Keep before them fresh water, powdered charcoal, sharp grit or coarse sand. A good food for chicks is made by mixing one pound of cornmeal, one-half pound of middlings, one-half pound of ground meat, two ounces of bonemeal, a pinch of salt and one teaspoonful of bread soda. Mix with milk or water and bake like bread; crumble and feed every two hours. Chicks should be fed every two hours the first week, the second week every three hours, and after that three times a day. Either Smith & Romaine's Boiled Beef and Bone, or Deodorized Blood Meal, may be substituted for the bonemeal as given above. The balance of your menu is all right.

**Canker.***Editor The Feather:*

1. Will you please tell me through THE FEATHER a remedy for canker in the mouth? Some of my fowls have been affected badly with it. 2. Also how to distinguish the right foot from the left foot of a fowl.—L. B., Lenox, Mass.

1. Canker is one of the most trying and fatal diseases that affect fowls. It is very contagious and soon spreads among the flock, if not taken in hand and suppressed at the first symptoms shown. Isolate the affected birds, disinfect thoroughly the houses, runs, drinking-vessels, etc., where the diseased birds were kept. The drinking-vessels and feed-troughs should be cleaned in scalding-hot water and purified with a weak solution of carbolic acid and water. Unless the diseased birds are valuable, it would be hardly worth while doctoring them. A better and safer remedy for stamping out the disease would be to kill them, and burn their carcasses. Alum water is the most commonly used remedy for canker; by bathing the sores frequently with it, it will, when the disease first appears, cure it. Chlorate of potash is also excellent for it. If the disease is taken in its first stages, the spots (sores) may be burned out with a weak solution of nitrate of silver. Another remedy is to wash the sores perfectly clean, and apply with a small brush equal parts tincture of myrrh, borax, and chlorate of potash, and afterwards dust with powdered borax until well healed. 2. The right foot of a fowl is the same as the right foot of a person—on its right side.

**Shipping Eggs.***Editor The Feather:*

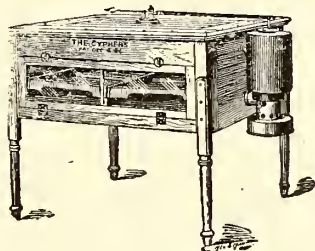
I think it is about time that the different express companies were called to account for some of their carelessness in handling "Eggs for Hatching" or else compel the poultry fraternity to ship in iron-clad packages. One or the

other must be done or there is no use trying to do any business at all shipping eggs for hatching purposes. I am thoroughly convinced of this by my own experience.

When we deliver to the express company a basket of eggs for hatching, carefully packed and labeled as such, and pay them all they ask for carrying them safely to their destination, can we not rightfully expect them to deliver them in a good condition, and not literally smashed to pieces, by piling boxes on them and being handled roughly in many ways? If the respective express companies would say to us, "We will smash your eggs unless you pack them so they will do for men to sit upon, or pile boxes upon, or be tossed from the car to the platform," and they added farther, "We have to come down upon them heavy with the rubber stamp in several places so that it will be plain and can be read clearly." This spring I shipped three settings of eggs to California and not a few were smashed in the manner last mentioned. The customer receiving them wrote me saying that the express company had smashed a large number by stamping them so hard with a rubber stamp. The eggs that were broken were directly under the places which had been stamped.

These eggs were packed in the following manner: I use a regular market, or egg-basket, such as most poultrymen use for shipping eggs for hatching. First, and in the very bottom of the basket, I use a layer of excelsior, say one to two inches thick; next, two or three thicknesses of paper covering the whole bottom and coming up on the sides all around; next, I proceed to place the eggs in, each being rolled up in a separate sheet of paper. When all the eggs are carefully placed I then pack fine chaff, hay seed, or wheat hulls, all around and among them. Next, I cover them again with excelsior, the same

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The Eureka Nest Box will aid you in culling out the non-layers. It shows just which hens lay and the egg any particular hen laid. After you receive the plans for the nest, if you are not satisfied, I will return your money. Write for particulars to-day to

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To avoid mistake, address exactly as above.





thickness as used in the bottom. Over this is placed another paper covering, good and thick. I generally use two to four thicknesses of newspaper over this. I cover the whole top of contents with heavy cotton fabric, sewing the same down all around the edge to the basket, so that when done the contents of the basket will be a very little below the top, so that anything layed on top of the basket will not touch the contents.

This is the way the eggs mentioned were packed, and still there were eggs broken by the express company. One customer wrote that six eggs were broken out of the fifteen shipped him. He said, "I can not blame you because they were packed carefully and securely, and it could not have been your fault." He said the eggs broken were all on one side and the package presented the appearance of having had a heavy weight fall upon it. I can mention other cases nearly as bad as the one above. Either the men who handle our eggs can not read, "Eggs for Hatching, Handle with Care," labeled upon each package, or else they do not care to. However, it does no good whatever to mention to them that fact. Now, I say it is about time we mentioned things to them so they will remember it one season at least. I have come to the conclusion that one-half of the poor hatches reported by customers come from the careless handling of eggs by express companies.

We have good hatches at home. We pack the eggs carefully and ship them, five or six broken in transit. Out of the others the customer gets two to three chicks. Eggs layed by same pen, and at about the same time, are hatched at home and we get eleven to fifteen chicks. Do you believe that the cause was in you, or the eggs, when you had taken such pains in packing them? I have learned from good sources that employees have tossed "Eggs for Hatching" out of the express car door to the man on the platform, and this man on the platform has missed catching them, and the egg-basket and all struck on the hard board platform. Do you wonder why eggs are received broken, or that they do not hatch well?—HENRY TRAFFORD.

#### Shows and Associations.

At the regular monthly meeting of the Rochester Fancier's Club, held Monday, February 6, 1899, it was decided to hold our next show January 5th to 11th, inclusive, 1900.—W. O. INGLE, Sec'y.

The Sycamore, Ohio, Poultry and Pet Stock Association at their last meeting, decided to hold a bench show in connection with their poultry exhibition, December 12-15, 1899.

At the last regular meeting of the Milwaukee Poultry Fancier's Association the following officers were elected for one year: President, R. K. Curtis; vice-president, E. Raasch; secretary, Fred. Goetz; treasurer, L. A. Waisner. The Association is getting along very nicely, having about forty good, active members, and taking new members at every meeting. Our object is to make this one of the largest and best poultry associations in the country. We meet on every first and third Tuesdays in the month. The Association intends to hold a big poultry show next winter at the Milwaukee Exposition.—FRED. GOETZ, Sec'y, Milwaukee, Wis.

The Central Ohio Poultry, Pigeon, and Pet Stock Association, of Wooster,

Ohio, has been reorganized, and the following officers elected: President, C. E. Wilhelm; vice-president, S. G. Case; secretary, C. F. Palmer; treasurer, A. S. Saurer. The members were so well pleased with the success of last year's show that they have decided to put forth every effort to make their coming show larger and better. They have secured Chas. McClave, of New London, as judge, and will hold their next annual exhibition December 26-30, 1899.—C. F. PALMER, Sec'y.

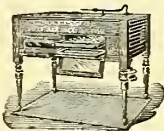
On April 1, 1899, a meeting was called by several parties around the city of New York, through the efforts of our president, Mr. Dan Schnur, of Astoria, N. Y., for the purpose of organizing a German society in the interest of poultry culture. The meeting was well attended, and the following officers were elected: President, Dan. Schnur; secretary, David Eisele, Cherry Hill, N. J. It was voted upon to call the Association "The German Poultry Association of America." At our next meeting steps will be taken to form a constitution and by-laws, and other matters to further the interest of the newly organized association. Every German breeder of poultry should join our association.—DAVID EISELE, Sec'y, Cherry Hill, N. J.

#### MOST NOTED STRAINS

B. P. Rocks, Sherwoods, C. Indians, W. & S. Wyandottes, S. C. Buff Leghorns, and B. Javas. Fine as silk. Prize winners. Eggs, \$1.50 per 15; \$2.75 per 30. After June 15th, 75c. per 13. Breeding pens for sale July 1st.

A. R. PARKER, Tyrone, Pa.

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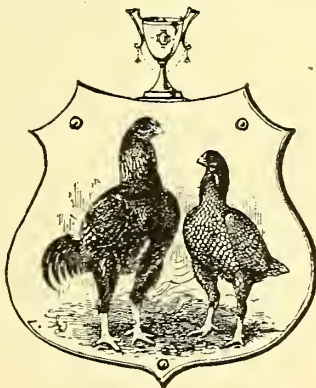
DES MOINES INCUBATOR CO., Box 3, Des Moines, Ia.

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Summer Ducks,  
White Swans.

Several pairs of these beautiful and ornamental waterfowl for sale. I have also some very fine PEA FOWLS for sale at low prices. Write me for particulars.

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SINGLE COMB BL. MINORCAS and Barded Plymouth Rocks. Standard-bred eggs \$1 per 13. From finer pens, \$1.50 per 13. I will treat you right. JOHN E. WEST, Columbia, Pa.

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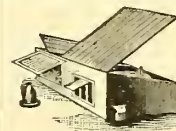
CHICKS FOR SALE—Five weeks old \$10 per 100. Hen and 10 chicks, \$2. Leading varieties. Prizes last winter. Eggs, 26 for \$1. Drop a card. HARRY MYER, Saugerties, N. Y.

JAVAS.—"JONES THE JAVA MAN," has eggs for sale, \$3 per 13, from great, big, mammoth Mottled Javas. Originator of the Jones' strain. JOHN R. JONES, Suffield, Conn.

LAYING PEKIN DUCKS—hatch of 1898—for sale in lots to suit, cheap; quitting the business. Address, GETTYSBURG POULTRY FARM, Gettysburg, Pa.

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## PARASITES AND POULTRY.

An Interesting Paper on an Interesting Subject to all Poultrymen.

The following paper was read by Mr. G. A. Spink, at a recent meeting of the Halifax Fanciers' Association. Speaking of the methods to adopt to keep the stock healthy, the lecturer said:—"The greatest aid is to keep the young stock clear of parasites. Cleaning out the places and dusting with quicklime and insect powder are not sufficient. When I began to rear chickens I went to my instructor with my difficulties, but found that he was very much in the same condition as myself; he was equally unfortunate, in fact I think more so—at any rate he gave it up, saying he could buy young stock much cheaper than he could rear them, an opinion all of you will agree with. But rearing chickens is, I think, the most delightful part of poultry keeping, and I was determined to find out the cause of my comparative failure.

"In 1896 I came across an article in *The Feathered World* of Oct. 23rd, 1896, by Professor Theobald, on 'Parasites in Poultry.' Mr. Theobald writes:—"Parasites or mites are often a great source of annoyance to poultry. The majority of them are microscopic, and are therefore passed unnoticed by the poultry fancier; yet some of them cause disease only too well known to fanciers, such as scaly legs, etc. The majority of mites or acarina are parasitic in habits; some are like the flea, only partially parasitic, that is they only go to their host to feed; others are permanent parasites living and breeding on or beneath the skin, and in other more integral parts. There are only three that are any great source of annoyance and evil to poultry. One living as a partial guest, the red hen mite, the other two being permanent, living either beneath the epidermis or in and around the epidermal productions. The latter produce "scaly leg," etc. The red hen mite is apparently common to many birds, as well as an occasional guest of the horse, ox, or even man himself. The red hen mite is nocturnal in its habits. As soon as darkness comes on, and when the hens are roosting, the mites leave their sheltered retreats, and commence to attack the birds, not only causing severe irritation, but much loss of blood, if there are many mites present. They feast upon the fowls all night, but at the approach of day they leave their feasting ground and hide themselves away in holes and crevices of the perches, nests, floor, walls, and even ceiling. They are often particularly abundant in straw nests, where numerous colonies of mites in all stages with their eggs may be found."

"After reading this article I thought that I was on, or could get on, the right method of extermination of the parasites, by being even more thorough in my methods of cleanliness. But no; whatever I did by way of fumigating the houses and chicken coops was of no avail, and why? *Because the parasite does not live and breed in the poultry-house or nests, but on the birds themselves*, who provide every essential for the mites to enable them to reproduce, providing them with the best of shelter, the best of food, and the necessary warmth to hatch the young. Finding all these good things on the birds, why should they trouble to leave such com-

fortable quarters and hide away in the nests and crevices of the poultry-houses, as suggested by Mr. Theobald?

"The favorite haunts of the mites are those parts of the birds where it will be most difficult for them to be dislodged, and in this matter the mites show an amount of ingenuity which is remarkable. The ova deposited on the feathers looks like dirt stuck on, yet, if you examine it closely, you will see that it is composed of a series of eggs which on being pressed will crack. You will also find that the ova is deposited on the underside of the feather, so that it will receive full benefit from the heat of the hen's body to enable it to hatch. With regard to the stock-birds, a thorough good dust bath is all they require, coupled, of course, with thorough cleanliness; but with young stock a more drastic method of treating the parasite is necessary. Care should be taken with the sitting hen. My method is to fumigate her thoroughly with paraffin oil; when I say fumigate I mean it, and don't mean that you are to wash her in the oil, but get some cotton waste or wool, dip it in the oil, and thoroughly rub it into the feathers, beginning at the head and proceeding down the neck to the opposite end of the bird, turning the feathers back and rubbing in the cotton waste. If you examine the waste you will find the parasites adhering to it. This should be done before the bird is set, and about one day before the chickens hatch, or about twenty-four hours after hatching.

"Having done this don't imagine that

you have finished, because you will find on close inspection that the parasites are still there, though not in such numbers as to give serious trouble. Their diminutive size prevents their complete extermination, coupled with their powers of reproduction; it will be necessary to renew the process several times while the chicks are with the hen; this I find is all that is necessary to keep them in subjection, and keeping them in subjection is all that we can hope for. You must now search for the ova or nits; these you will find deposited on the feathers under the throat, from the mandible to half way down the neck, the feathers being one mass of ova. These feathers I pluck out and destroy, the chickens being quite happy during the process. Having now destroyed the ova as far as you can, search for the female mite, which you will find in the feathers on the head and back of the neck, using the same methods of destruction as previously recommended, by rubbing in the waste soaked in paraffin, to rubbing the feathers the wrong way; thus you will destroy the mites that have been transferred from the sitting hen to the chick. If you carefully examine the mites taken from the head, and those from beneath the tail, you will notice that those from the tail are much lighter in color than those from the head. My theory for this is that those on the head are the old ones transferred from the sitting hen, while the others are young mites that have been hatched on the chicken.

"The subject of parasites has a fas-



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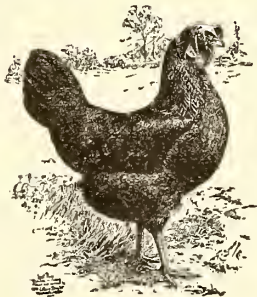
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cination quite apart from poultry keeping. There is exhibited in the methods of the parasite an ingenuity quite commendable. The instinct shown by them in sticking to the birds, the rapidity with which they fasten on the future hen, their method of depositing the ova where the chick can not possibly remove it, and their further intelligence in themselves lodging on the top of the chicken's head, until the favorable time comes for them to deposit their egg on the throat of the bird, all go to show instinct of a high order. If you examine the young chicks as soon as they are dry after being hatched, you will find one or more mites on the top of the chick's head anchored by the rostrum or beak to the skin on the head of the chick. In the white chicks they are easy to see, but in the darker sorts they are more difficult to find, as the down is the same color as the mite. Here they remain until the down is long enough, or the chickens have grown their first feathers; they then deposit the ova on the down or feathers on the top of the head, the heat of the chick being sufficient to hatch it. I have no doubt many of you have noticed that some chickens appear to feather very slowly on the top of the head. This is caused by the down or first feather being so full of ova that it can not develop properly. But this is not the most serious part of the trouble. If it was only a question of slow feathering we should get over that, but the mites develop so rapidly that they become so numerous that the life of the chick is made unbearable, and they 'whine and whimper' and make the fancier as miserable as they are. It then is a question even to the fancier whether life is really worth living; the chicks are not long in deciding the question, as many of us know to our sorrow. (Laughter.)

"Professor Theobald says they are essentially nocturnal in their habits. My experience shows that they are both nocturnal and diurnal; always on the birds, breeding and living there. Once they are dislodged they are helpless or apparently so, and soon die and perish, except during the very hot months of the year, or when in neglected poultry-houses, where the birds have no dust-bath, and they become so full of mites that their bodies will hold no more, and the mites are compelled by the laws of gravitation to fall to the ground. You may think this an exaggeration, but I did once see a hen so full that I could shake off the mites, the body of the hen being completely covered, while the mites were rolling together like a swarm of bees newly shaken into a hive. This hen was completely emaciated by the loss of blood drawn from her by the horde. This case shows the absolute need of a dust-bath.

"If the mites were nocturnal in their habits, and did not lodge on the birds, our difficulties with the sitting hen would be simple indeed. All that would be necessary would be to set the hen in a soap-box away from the roosting-house, and our difficulties would be at an end. I think I am correct in saying that I never lose a chick if it is strong and healthy when hatched. After my hatching was done last year I allowed the sitting nests to remain just as they had been used, to see what they would produce in the way of parasites. And a treat I had, too. On examining them I found them literally alive with fleas—myriads of them. I took the hay and

straw composing the nest, saturated it with paraffin, and set it on fire, and to see the fleas jumping in the fire was a treat never to be forgotten! I then examined the dust at the bottom of the nest; it was a moving mass of life. I covered it with quicklime, waited for developments, and shortly the lime was almost covered with fleas that had jumped and dropped down again on the lime. I then tried a solution of carbolic acid and water, but that hardly seemed to lessen or reduce them. I ultimately soaked the whole floor with water spread on lime, and worked the whole lot into mortar, and thus formed a fairly good concrete floor to house, and have not seen a flea since. Personally, I began to think that I was a martyr to

science, as the circumstances reminded me very much of a picture there is in Fox's 'Book of Martyrs,' where a man is strung up in a basket being stung to death by bees, the only difference being that he was naked." (Laughter and applause.)

Mr. Spink was cordially thanked for his essay, on the motion of Messrs. W. E. Horsfall and Arthur Crabtree, president of the society. Microscopic slides, specially prepared by Mr. Crabtree, and exhibited under his microscope, added interest and instruction to the evening.

[We are indebted to Mrs. Comyns-Lewer, editor of our valuable London contemporary, *The Feathered World*, for the advance proof sheets of the above article. We feel that our readers will read it with considerable interest.—EDITOR.]



First Prize at Washington, 1899.

## ...EASTERN SHORE POULTRY YARDS...

S. C. WHITE AND BROWN LEGHORNS ONLY.

At The Great Washington show in 1899 our S. C. White Leghorns won 1st on cock and pen, 3d on cockerel, and 4th on pullet. 4 prizes on 4 entries. How is that? We have green range the year around. Eggs, \$1 per 15, or \$5 per 100. Belgian Hares for sale.

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## ...MITES AND LICE ON YOUR POULTRY?

Paint roosts with Lee's Lice Killer.

All done.

Next morning look, and see all lice and mites lying dead on roost-boards.

Many customers report finding them in piles a half inch deep where each fowl roosted the night before.

Seeing is believing.

Same with hogs.

Paint rubbing-posts or sprinkle floor of sleeping-pen.

All done.

No more lice, mites or fleas.

No handling, no labor.

Cheap.

Only 75 cents for a gallon can.

Try our Lee's Lice Killer: Test it thoroughly, and if you do not find it to be as represented by us, we will refund your money. Don't expect a quart to do the work of a gallon. Don't expect a little dab here and there to renovate a large poultry-house that may have been infested for years with mites and other vermin. Use it honestly and with a mixture of common sense, and you will say, with others, that the can of Lee's Lice Killer was the best investment you ever made.

No need to pay a cent for express charges. Your dealer should supply you, as he can readily procure Lee's Lice Killer when ordering other goods, and we now have distributing agents at most principal points in the United States.

Full particulars, list of agents, and 64-page book on "How to Get Rid of Insects and Diseases of Poultry and Stock," mailed free on application. Sample Lee's Lice Killer, prepaid, 10 cents.

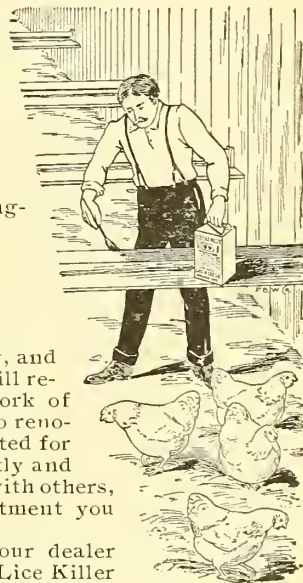
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or 68 Murray Street, New York City.





## Some Suggestions.

Editor The Feather:

To me it is amusing and instructive reading about swelled head, roup, etc., as discussed by several of your patrons. Without argument, permit me to say my troubles of the kind have been many, but less after using Vapo Cresoline night and morning until relieved, which is in three or four days; or sulphur, carbolic acid, and vaseline made into a salve. Either of these remedies will cure every time. Three spoonfuls warm lard will cure hen troubled with soft-shelled, or broken eggs in a short time. I have had a trouble among my birds that I was unable to tell what it was. Have killed, once in a while, a bird which seemed useless, but found nothing to explain matters to me. Lately, in attempting to pick up a bird that seemed unable to move about, I noticed it desired to mate. I thought I would try the experiment, and mated her to a cock in the next pen. I put her and her mate back and she was perfectly contented and lively, and has since attended to her duties. Have had others which were apparently sick and attended to them in the same way. These birds were in an unmated pen all winter. The benefit of a reasonable mate is obvious.—H. E. COLE.

## Hatching With an Incubator.

Editor The Feather:

I was very much pleased with the beautiful colored plates sent out with THE FEATHER, and think your paper an excellent one. For those who wish to buy incubators or brooders I would heartily recommend the "Star." This incubator is easily run and when once regulated with a standing temperature needs but little adjustment. I have one of the 220-egg machines, and when set for the first time out of the 220 eggs it brought out 160 good, strong chickens, on the nineteenth and twentieth days. The other eggs were either infertile or the germs too weak to mature.

Care must be taken not to overcrowd the brooders. I think it a good plan to use wire-covered runs with the outdoor brooder, so that the chickens may exercise in the fresh air and sunshine, going in and out when they choose. If the ground is damp I find that a board bottom laid in the run is beneficial when the chickens are young.—L. E. MAC PHERSON.

## INCUBATORS and BROODERS.

These Incubators are self-regulating, complete in every respect, and guaranteed to hatch 90 per cent of fertile eggs. Address

M. E. FIRESTONE, Sidney, Ohio.

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Want the worth of their money. It is only reasonable that they should, and that is why we make the following offer—we know all poultrymen will get the worth of their money if they take this combination.

The Feather, 1 yr. . . . . \$1.00  
The Poultry Monthly, 1 yr. . . . . \$1.00  
The Amer. Fancier's Poultry Book . . . . . \$2.00

Total . . . . . \$4.00

By sending us \$1.15 we will send all of the above to you. This offer is a good one and should be taken advantage of before it is withdrawn. Make all remittances payable to

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Will be the only Hens wanted in the 20th Century.

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Will register each individual Hen, and the egg she lays, and is the

ONLY NEST IN EXISTENCE that will do this with absolute certainty.

Can be made in a few minutes, out of a dry goods box and 10c. worth of hardware.  
Easy to Operate! No Dark Box! No Handling of Hen! Plans and Permits, \$3.

## SYSTEM NO. 2,

## By Which Every Hen Will Keep Her Own Record,

And at the end of every month will tell you just how many eggs she has laid. No machinery or apparatus of any description. Simply a scientific method of applying  
THE "UTILITY" NEST. Description and Permit, Extra, \$2.

Don't ask for particulars. None can be given.

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GENTLEMEN:—We have subjected your American Poultry Food to the most thorough tests and with gratifying results. It has produced such marked benefits on young "peeps," growing birds and laying hens, that we have adopted it as the only proper food, and we feel that we cannot too strongly recommend its use to all poultry breeders and fanciers.

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The above bird is owned by Messrs. Rudy & Son, and has received two first prize awards. She was reared and fitted for show on American Poultry Food.

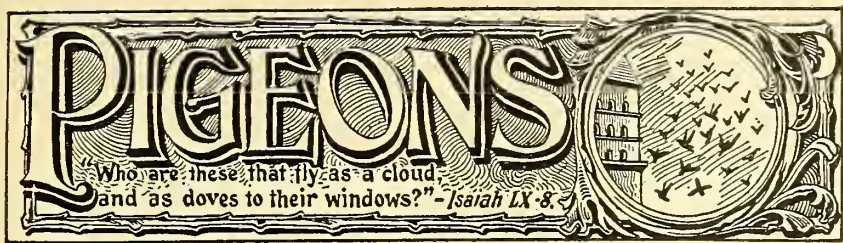
Practical Poultry Feeding, a little book covering a wide range of subjects of vital interest to Poultrymen, will be sent you free, post paid, on request.

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## THE POUTER.

Standard for Judging this Beautiful and Attractive Pigeon.

BY J. C. LONG.

**W**HILE the Carrier is recognized by most authorities as the king of pigeons, this beautiful and attractive pigeon is generally accepted as the dandy of the family, its exquisite shape and proud, stylish, foppish ways really entitling it to the name. This is a very old variety, and is said to have been made from a cross of the Carrier or Horseman with the old Dutch Pouter. This cross has been improved from time to time by careful and persistent breeding, until we have the beautiful and strikingly attractive bird known as the English Pouter. In selecting or judging Pouters the qualities mainly to be considered are: 1st, length of limb; 2d, size and shape of crop; 3d, length of feather; 4th, slenderness of body or girth; 5th, color and markings. Its standard description is:

**SIZE.**—Large.

**LENGTH.**—From  $17\frac{1}{2}$  to 20 inches, measuring from end of beak to end of tail. Measurements made along the side, stretching the pigeon from left to right.

**CARRIAGE.**—Upright, stately, and graceful.

**COLORS.**—Blue Pied, Black Pied, Blue Chequers Pied, Red Pied, Yellow Pied, Silvers Pied, Mealy Pied, and White. What are known as Mealies are by some called Reddish Silver and Yellow Silver, and some of the best of Pouters are usually found of these colors that have formerly been considered off colors.

**MARKINGS.**—The colors named should cover head, neck, back, and breast to a line just below the wing-bows; also tail in Blacks, Blues, and Chequers. Tails in Reds, Yellows, Mealies, and Silvers white, although if it could be produced of same color as the bodies it would be preferred. Whites should be pure snowy white. Across the crop of all colored birds is a crescent-shaped marking of white, about  $1\frac{1}{2}$  inches wide in its widest part and reaching backwards to a point just below the eyes. On the

wing-bows a collection of small white feathers, about a dozen in number, known as the rose. Under portion of the body, including the legs, white. Wing-flights, white. Across the wings of Blue Pieds and Chequers are two black bars; also a black band on the end of tail.

**HEAD.**—Fine, and regularly arched from base of the beak to base of skull. In size proportionate to the size of the bird. Measurement as in the Carrier, from center of the eye to end of the beak  $1\frac{1}{4}$  to  $1\frac{1}{2}$  inches.

**BEAK.**—Fine, tapering slightly from base to point. The upper mandible



PIGMY POUTER.

POUTER.

slightly curved at the tip. Color in Black, Blue, and Blue Chequers, black; in Reds, Yellows, Silvers, Mealies, and Whites, flesh-color, sometimes slightly streaked with brown.

**BEAK WATTLE.**—Small and fine in texture.

**EYE.**—Full and mild in expression, and surrounded by a narrow, fine, fleshy formation known as the cere.

**NECK.**—Long, and furnished with a

large membranous sack known as the crop, which it inflates with air at will.

**CROP.**—When inflated large and globular, carried well up and forward and sloping in graceful lines to the breast.

**BODY.**—Medium in size, small at its juncture with the neck, and tapering on all sides neatly to the tail, forming what is known as the girth.

**BACK.**—Narrow, with a slight groove or depression running from shoulders to rump.

**BREAST.**—Narrow, straight, and long, showing very little breastbone and tapering sharply to the vent.

**WINGS.**—Long and narrow, carried close to the body, well up and tapering to the flights, which should be composed of broad feathers tapering to the tail, where the ends should meet and rest about an inch from the end of the tail. The flight-feathers ten in number and pure white.

**TAIL.**—Long, narrow, in conformation with the lines of the body, end rounded and slightly raised from the ground.

**LIMBS.**—Set well back on the body, not too closely together, nor yet too wide apart. Straight, inclining slightly inward at elbow or hock joint, and from there again to the foot slightly outward. Length of limb measured from the hip joint to end of middle toe from  $5\frac{1}{2}$  to  $7\frac{1}{4}$  according to the length of the bird, the shank measuring about two-thirds the length of the thigh, and both well covered with soft white feathers, fitting closely and evenly to the leg.

**TOES.**—Straight, well feathered to the ends, with narrow feathers from one to two inches in length, evenly and neatly spread.

**COMMON DEFECTS.**—White marking or snip on forehead; oval crop, crop when inflated carried to one side or extending too far back on sides of the neck; crop long and flabby; eyes not both same color; crescent not well developed, and again covering too large a space; too much white on wing-bows, known as lawn sleeved; thickness of waist or girth; short legs; legs scantily feathered; legs vulture hocked and too heavily feathered; knock kneed or carried too far apart; roach backed; short tail; bronzy bars on wings of blue and chequered; foul feathers on legs of any variety; wings carried too low and tail dragging the ground.

**DISQUALIFICATIONS.**—Birds not measuring 16 inches in length; legs not six inches in length; eyes not matching in color; crop small, oblong, and carried to one side; legs devoid of feathering; colored feathers in white birds; disease or deformity of any kind.

### A Chance for Beginners!

I have purchased several lofts of record birds, and am compelled to dispose of several pairs of grand breeding Homers at a great sacrifice. The Ideal Lofts, E. L. Barclay, Proprietor, 812 21st St. N. W., Washington, D. C.



## Judging Homers.

*Editor The Feather:*

In reply to a question as to the points that Flying Homers are judged by, you state that they are not judged by points, but that awards are given them according to their records for flying.

Will you kindly state at what shows Homers have been judged in this way? This is certainly not the custom at the two greatest shows in the United States, viz., Boston and New York. Where would proofs of the flying records be obtained which would be conclusive?

Although the flying record of a Homer would, no doubt, prove its superiority, it does not seem to me that it has so far been found practicable to make awards on this basis, at least at the most important shows.

The judging of Homers at the shows is unsatisfactory at the best, because a bird whose standard of value is what it can do can not be judged by its looks. As there is, apparently, no other way to judge them, however, the awards are made on looks in a very arbitrary manner, there being no standard. The writer was much amused to notice at a recent show, that after awards were made to three birds in a row, there appeared tacked on to their pens cards, upon which was printed something like the following—

Owned by the  
"Daily Howler" (newspaper).  
Record, 1,000 miles.  
Bred by John Doe.

I admired that judge for his great perspicacity.

There is a "general character" which distinguishes a Flying Homer. A judge can only pick out, from a good lot, those most pleasing to the eye, or rather his eye. I met exhibitors at the Boston show who were endeavoring to find out on what basis awards were made.

No man can tell whether he has a winner in a Flying Homer at the shows, neither can he tell what to strive for in an endeavor to obtain a winner.

"EXHIBITOR."

For the benefit of our correspondent we will say that Flying Homers were judged at each of the Washington shows by their records, not by feathers. This is the only way to judge Flying Homers, and certified records are easily produced by those holding same. Flyers of Homing Pigeons are, or should be, members of the Federation, as it is the correct way of doing things. It is unjust to judge these birds by feather, and the two shows, as well as others doing the same, make a mistake by placing the awards on these lines. A trotter or pacer is not judged by its looks but by the work it has done.—Ed.

## Stray Homers.

Mr. E. L. Barclay, 812 21st Street N. W., this city, reports a visitor in his loft. The bird is a Red Chequer hen, and is banded K 3552. The owner will please communicate with Mr. Barclay.

A Homing Pigeon, bearing a leg-band marked A 6460, and which had been shot, was picked up on the place of Mr. Oscar Lindsley, Green Village, N. J., on March 10th, about midday. The owner of the pigeon can procure the band by applying to Mr. Lindsley.

On March 10, Mr. O. K. Sharrock, a farmer living near Bucyrus, Ohio, brought to town a Homing Pigeon which had been shot at dusk by his son, the latter supposing the bird to be one of a flock of common pigeons which had proved a nuisance, and he was trying to exterminate the lot. The Homer, which was shot when flying over the premises, was dark blue in color, with a glossy neck, and upon one of its legs

was a band bearing the inscription "J. F. B.—98, No. 201."

Mr. C. Howard Slater, 41 Gifford Avenue, Rahway, N. J., is caring for a Homing Pigeon which he found March 25th, on Monticello Avenue. Mr. Slater noticed the pigeon soaring above the street and then suddenly make a downward dash, in the course of which it struck one of the trolley wires. Stunned by the shock the bird fell on the middle of the car track. A passing car passed over the bird without injuring it. Mr. Slater picked up the pigeon and found that one of the wings had been hurt by the live wire. On its leg he found an aluminum plate inscribed, "A 2594." The bird is rapidly recovering under the care of Mr. Slater. The latter is looking for the owner.

The schooner "Rebecca J. Moulton," which arrived at Boston, Mass., on Wednesday, April 5th, reports that on March 29th, at 11 a. m., while off Bonibar Hook, Delaware River, a Homing Pigeon flew aboard, thoroughly exhausted. It was caught and taken into the cabin of the schooner where it was confined until the schooner reached Minot's Light, Boston Harbor, on April 3d, when it was released at 4 p. m. The captain tied a message to the leg of the bird, giving the particulars of the find as well as the time of release, the name of the schooner, and her Boston agents: On April 6th, the Boston agents received a letter from a party in Roxboro, Mass., stating that the Homing Pigeon was at their place and that they awaited the orders of the schooner's agents in regard to the disposal of the same. They enclosed the message which was found tied to the leg of the pigeon. The band on the pigeon bears the following marks, N. A. 3572, and the owner can have the same by proving his property and addressing Thomas Leavitt, Dorchester, Mass.

## A New Club.

The Hagerstown (Md.) Homing Pigeon Flying Club has been incorporated. The following dates were selected for old-bird races, to be given under professional rules: May 21, 100 miles, from Shenandoah, Va.; May 28, 200 miles; June 4, 300 miles; June 11, 400 miles; June 25, 500 miles. Pigeons will be flown for diplomas.

## The Most Difficult Question.

The most difficult question in poultry raising is the question of disease. Dr. Salmon has done more than any other person to solve this question. You need his new book Diseases of Poultry. Price 50 cents postpaid. GEORGE E. HOWARD & Co., Publishers, S. W. Cor. 8th and H Sts. N. W., Washington, D. C.

## BARRED PLYMOUTH ROCKS

—EXCLUSIVELY.—

My matings for this season will produce exhibition birds of high excellence. My stock is of the best blood in the world, and all sales guaranteed satisfactory or money refunded on return of stock. Eggs, for balance of season, \$2 per 15. Stock for sale at all times.

L. H. EDWARDS, La Fayette, Ind.

## POTOMAC VIEW POULTRY FARM,

R. C. GRINDER, Prop., Rosslyn, Va.

Breeder of high-class

## B. Plymouth Rocks and Buff Leghorns.

Eggs, \$2 per 15. At Washington, D. C., January, 1899, I won 1st premium on Buff Leghorn cockerel. Stock bred for utility as well as fancy. Satisfaction guaranteed.

# Greolene Poultry Paint.



The Best Vermin Destroyer  
...on the Market...

Can be used with perfect safety and is guaranteed to free your poultry and buildings of all mites and lice if used according to the printed directions on each can.

We are also Manufacturers of

# Carbolized .....Dust

For dusting-boxes, dropping-boards, &c., &c. Takes away all moisture of droppings and makes your house healthy, thus preventing diseases in your poultry. Why pay 20 to 30c. per lb. for lice powder when our **Carbolized Dust** will do the same thing at 1-30 of the cost. Put up in cotton sacks at the following prices:

50 lb. sack 50c.

100 lb. sack 90c.

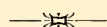
1 ton \$16.

We will pay a reward to any one who will prove our goods are not as represented.

We want an active agent to work for us in each State and County in the United States, a chance for you if you are a hustler, if not we do not want you. Write at once as these goods will be placed on sale in your town, and why not be the one to make some money?

We are, also, manufacturers of all kinds of

Roofing Materials, Paints, &c., &c.



Cattaraugus Roofing  
& Paint Company,

Salamanca, N. Y.



## THE BUSINESS WORLD,

As Viewed From the Columns of The Feather.

## A GREAT STRAIN.

The ad of J. H. Thompson, Jr., Box 98, Patterson, New York, the well-known breeder of Barred Plymouth Rocks, is familiar to the readers of THE FEATHER. Mr. Thompson has been a breeder of Barred Rocks many years, and he has scored many successes with his birds at New York and other places. He has been always in the front ranks of the Barred Rock breeders, and his strain is credited with being the foundation of various other strains in this country. We have seen several fine birds produced by Mr. Thompson, and his first cockerel at New York a year ago is reckoned among them. He can furnish a full record of his birds for years past, and those he is now breeding are in the same line of stock that has been so favorably awarded in the show-room. Mr. Thompson says he has a better lot of breeders this season than ever before, and he is sure to please those who want eggs for hatching from this variety of fowls. His prices are reasonable for the quality of the stock, and we would suggest that our readers write him for his circular and price list. Mr. Thompson says he has some grand breeding birds that he will be pleased to dispose of at low prices. If you want a good male or female for your pens correspond with him, he has the birds and will dispose of them.

## DOANE'S BLACKS.

We are in receipt of the new circular and price list of the Riverside Poultry Yards, Gouverneur, N. Y. Mr. J. H. Doane, proprietor of these yards, writes us, that his matings are much better this year than ever before. The readers of THE FEATHER are well acquainted with Mr. Doane's Black Minorcas, and their winnings in various show-rooms. His new circular describes minutely each of his six specially-mated breeding-pens, and our readers who are

interested in Black Minorcas should write him for a copy of his March, 1899, circular which gives the details of these matings. Mr. Doane says, "I will try to make those who favor me with egg orders, as well pleased as those who bought stock from me." This assurance on his part should be an incentive to our readers to try Mr. Doane's strain of Blacks; he guarantees satisfaction in every case. See his ad and write him.

## HIS NEW CIRCULAR.

Philander Williams, Taunton, Mass., the well-known breeder of Light Brahmas, has just issued a large illustrated



LIGHT BRAHMA COCKEREL. FIRST AT NEW YORK, 1899.  
Owned by Albert L. Sessions, Bristol, Conn.

circular and revised price list of his fowls and eggs. Mr. Williams is undoubtedly one of the greatest breeders of thoroughbred poultry in this country, and he needs no introduction to the readers of THE FEATHER, as they are all well acquainted with both him and his birds. We would suggest that our readers correspond with him and request a copy of his new illustrated catalogue and price list. We are sure you will be pleased with the great offers that he is making for Brahmas, Wyandottes, Plymouth Rocks, Cochins, Cochins Bantams, Sebright Bantams, and Yellow Fantail Pigeons. His list is complete and his prices are reasonable for the quality of birds that he sells.

## A CHANGE OF AD.

The Rossmore Poultry Yards, Melrose Highlands, Mass., make a change in their ad in this number. Be sure you read it and note carefully what Mr. Bucknam has to say.

## ELM TREE FARM.

The Elm Tree Farm, West Lenox, Pa., has some good birds and eggs for sale. This farm is breeding Light Brahmas, Barred Plymouth Rocks, and Cornish Indian Games. These three varieties are their leaders, and their prices are low. They send us some feathers from their Barred Rocks that are first class in color and barring. Write them for circulars and prices, they are making some liberal inducements to purchasers.

## A GREAT CATALOGUE.

The Excelsior Wire and Poultry Supply Co., 28 Vesey St., New York, is sending out one of the handsomest and most complete catalogues of poultry supplies ever put upon the market. This great book is of quarto size, and has 112 pages and cover. It contains a list of every kind of poultry supplies sold in this country, and also contains complete lists of books, publications, etc. In fact, it is a great reference book for all persons interested, and we would urge upon the readers of THE FEATHER to write for a copy of the same. Mr. W. V. Russ, the proprietor, has spared neither time, patience, nor money to make this catalogue the most complete of any published, and we are pleased to see him prepared to do such an extensive business. Mr. Russ' trade

is over the civilized world, he being a large importer and exporter of poultry and pigeon supplies. Readers of THE FEATHER, no doubt, watch his ad with much interest, and note the low and reasonable bargains which he offers each month. This catalogue contains illustrations as well as descriptions of each appliance that he sells. Be sure and send for a copy of this great catalogue.

## WORTHY OF FIRST PLACE.

The Wautauga Poultry Yards, Elizabethton, Tenn., report a lively trade in White Plymouth Rocks and Cornish Indian Games this season. The readers of THE FEATHER will remember the



extended article we published recently, about the fine stock to be found in these yards, and it is our pleasure to call attention to them again. Mr. Lee F. Miller, the enterprising proprietor of these yards, is to be congratulated on his success. He exhibited a pen of White Rocks at the last Washington show, but they were unfortunately delayed in arriving, and, as a consequence, did not get their full credit when the awards were made. Mr. Lambert, who was judge of the White Rocks, writes us as follows: "The White Plymouth Rocks shown at Washington, D. C., by Mr. Lee F. Miller, were eligible for first place had they not been unfortunately delayed, and arrived after the awards had been made." Mr. Miller makes a change in his ad this month.

#### MR. TEMPLE'S WHITE WYANDOTTES.

The accompanying illustrations are sent us by F. W. Temple, West Chester, Pa. The upper view is the first-premium pen, White Wyandotte chicks, at Marcus Hook, Pa., and Carlisle, Pa., September, 1897. The middle view is of the first-premium pen, White Wyandotte chicks, at Mt. Gretna, Pa., August, 1897. The lower view is that of Mr. Temple's yards at West Chester. His winnings the past fall were as follows: At Mt. Gretna, August, 1897, 1st pen White Wyandottes; 1st cock, 3d pullet, and 4th pullet. Marcus Hook, September, 1897, 1st pen, 1st cock, 2d cockerel, and 2d pullet. Carlisle, September, 1897, 1st pen, 1st cock, 1st pullet, 2d hen, 2d cockerel. At Hagerstown, October, 1897, 2d pullet, 5th cockerel. At every place there was strong competition. At Hagerstown there were ninety-five in the White Wyandotte class.

#### SNAP SHOTS.

George Harrison Morris, Richmond, Va., is now mailing a very handsome circular called "Snap Shots," of his Barred Plymouth Rocks. This circular is very neatly and tastefully gotten up and shows a number of illustrations taken directly from his birds, as they really are, and not as many suppose them to be. Mr. Morris is very particular to show the exact thing which he sells, and, while for artistic beauty the illustrations might not be as fine as many others, yet they are the true thing. Mr. Morris advertises regularly in THE FEATHER, and those who are in need of superior Barred Plymouth Rocks should correspond with him and get his latest and best prices. See his ad elsewhere in this paper and write to him.

#### TWO GRAND BIRDS.

We are in receipt of a letter from Mr. J. D. Nevius, manager of the Lynnhurst Poultry Yards, Glassboro, N. J., which says as follows:

"We received last week by steamer 'Normandie' direct from Mr. Geo. H. Proctor, England, two very choice Buff Cochin pullets. He writes us that these

birds were bred from his very best. I do not think I ever saw two pullets so nearly alike in size, shape, and color. They are one even soft shade from comb to end of tail. We have mated them to a grand, even, rich golden cock that is clear buff throughout, including wings and tail, and we expect some good chicks. Our trade in fowls and eggs has been and is now very satisfactory."

#### CREOLENE PAINT.

The new ad of the Cattaraugus Roofing and Paint Co., Salamanca, N. Y.,

trained birds bearing records of 200 to 500 miles and also diplomas.

Signed, C. M. N. LATIMER, D.D.S.

Mr. Barclay has also purchased from Mr. C. A. Mahr, Jr., three hens as follows: A 8,520, A 8,673, and A 8,476, having flown 200 miles as youngsters. These birds are from the "Trenton" and "Bright Eye" strains, and from 500-mile, one-day birds.

#### SETTING CHICKS OUT.

This is the season when poultrymen are preparing to get their chicks out of doors, and in order to do this find it

necessary to have a well-constructed outdoor brooder. Such a brooder is made by the Cyphers Incubator Co., of Wayland, N. Y. This outdoor brooder has demonstrated its worth during the past season, being constructed on purely scientific principles and embodying valuable features. Many customers have raised 100 per cent with it. The Cyphers outdoor brooder is 5x3 feet, with a commodious yard run; is well lighted and ventilated; has top heat with a perfect diffusion; is absolutely safe from fire, and is covered with a metal roof making it water proof. Everything necessary for operating accompanies the brooder. Write the Cyphers Co., for description and prices of this and also of their splendid 50-egg incubator, the counterpart of their larger machines.

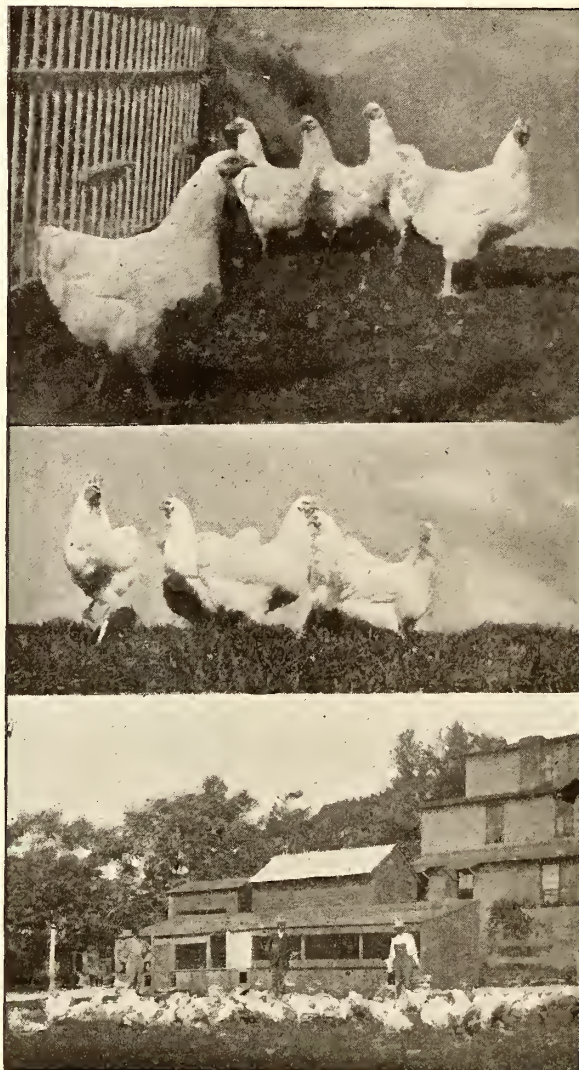
#### The American Buff Plymouth Rock Club.

The Buff Rock has now a firm hold on the American people, and its popularity has increased so, that but few fowls enjoy as much. Their merits are so well known that I need not mention them, but if any one wishes to know more, let them send for a copy of the last catalogue of the American Buff Plymouth Rock Club, which contains many articles of interest written by the different prominent breeders. That this club has been conducted on proper lines you need but remember the fact that it has been formed but two years, and that it has set the pace for all. It was the first to have an honorary vice-president for each State represented; the first to offer a cup to each State having ten or more members; the only one holding meetings east and west, and the first to have 100 names on its membership list.

The membership fee and yearly dues are each one dollar. Application blanks may be had from any of the officers. W. C. DENNY, secretary and treasurer, Rochester, N. Y.

#### The Only Up-to-date Book.

The only up-to-date book on Diseases of Poultry is the one written by Dr. Salmon, and now for sale, price 50 cents, by GEORGE E. HOWARD & Co., Publishers, S. W. Cor. 8th and H Sts. N. W., Washington, D. C.



WHITE WYANDOTTES BRED AND OWNED BY F. W. TEMPLE, WEST CHESTER, PA.

begins in this number of THE FEATHER. This company is making the Creolene Paint for poultry-houses, plants, fleas, or lice on horses, cattle, hogs, etc. This paint is guaranteed to free them from all mites, lice, etc. It is pronounced to be a lasting oil, retaining its chemical properties for months. This is the season for lice and other vermin, and the practical breeder will take all precautions to be rid of these pests. Note the ad elsewhere and write for more particulars.

#### TRANSFER OF STOCK.

This is to certify that I have sold to E. L. Barclay, of Washington, D. C., my entire loft of Homing Pigeons, all



## Classified Advertisements

Fully prepaid advertisements of thirty words or less inserted under this heading at the following rates:

|                  |        |
|------------------|--------|
| One time.....    | \$ .50 |
| Three times..... | 1.00   |
| Six times.....   | 2.00   |
| One year.....    | 3.50   |

### READ CAREFULLY.

Copy may be changed as often as desired, though we advise running a standard ad. when possible, in order that buyers may become acquainted with it. Length of ad. is not limited, but additional words will be charged at the rate of 1½ cents each for one insertion, or 1 cent each for each insertion when run three times or more. Initials and figures count as single words.

### PLYMOUTH ROCKS

#### BUFF PLYMOUTH ROCKS ONLY.

Now "Old Glory" proudly waves o'er Porto Rico: The Philippines are ours, and Cuba free; Vast armies must be paid, you can meet the taxes laid.

By breeding Burdick's "Nuggets," don't you see?

My strain is well known as producing the winners at all the leading shows, Chicago, '99 included. Matings for 1899 surpass anything before attempted. January and February eggs half price. Eggs that hatch for March, April, and May \$3 for 15. After May eggs again half price. Breeding and exhibition stock always reasonable. Write, H. S. BURDICK, Rome, N. Y.

**WHITE ROCKS EXCLUSIVELY.** Bred for practical and exhibition purposes. Two firsts and one second from three entries, Hagerstown, 1898. First and second hens, second cockerel, Washington, D. C., 1899. Eggs, \$1.50 per 13. Stock for sale. J. F. DEFANDORF, Garrett Park, Md.

**BARRED PLYMOUTH ROCKS EXCLUSIVELY.** Thompson strain. Eggs for hatching from six choice well-mated yards. \$1.50 per 15, \$5 per 100. H. E. KIPP, Red Hook on Hudson, N. Y.

**BARRED PLYMOUTH ROCKS.** Thompson & Bradley Bros' strains. Eggs from fine large birds \$2 per 13. "Fertility of eggs guaranteed." T. H. HARTMAN, Fullerton, Lehigh Co., Pa.

**OVERBAUGH'S BARRED PLYMOUTH ROCKS.** Won at Mt. Gretna 1898, 1st and 2d cock, 1st and 4th hen, 3d cockerel, 3d pullet, \$5 gold special and Pennsylvania State Poultry Association Bronze Medal for best display. Eggs \$2 for 13. "Hub" 1st Boston cock, heads one of my yards. Also Buff P. Rocks and Buff Leghorns. Catalogue free if mention The Feather. W. H. OVERBAUGH, JR., Hanover, Pa.

**WHITE PLYMOUTH ROCKS EXCLUSIVELY.** Pure white, first prize wherever shown. Eggs, \$2 per 15. Satisfaction guaranteed, circulars free. Member Advisory Board American White Plymouth Rock Club. I. F. SCHOTT, Box 175, New Pittsburg, Ohio.

**BUFF PLYMOUTH ROCK EGGS** for hatching. My Buffs are the famous Wilson and Burdick strains, are first class, and my price of eggs is very low, considering quality. Also eggs from beautiful White Wyandottes. Write, CLINTON ELLIOTT, Sag Harbor, N. Y.

**MY BUFF PLYMOUTH ROCKS,** at Washington this season, won 1st on hen, 1st on pullet, 4th on cockerel, and four specials. Write for circular giving other winnings. Some stock for sale. Fertile eggs, \$2 per 13; \$4 per 30. MILES LOUER, East Onondaga, N. Y.

**ROOKER'S BUFF ROCKS,** were winners at Madison Square Garden, Buffalo, Chicago, Hagerstown, Rochester, and others. Stock and eggs for sale cheap. Stamp for circular. Vice-President Buff Rock Club, for State New Jersey. J. E. ROOKER, Box 202, Washington, N. J.

**WHITE PLYMOUTH ROCKS THAT WIN.** Chicago, 1899, won 1st and 5th pullet, 4th and 5th hen, 5th cock, 2d pen (1st 1st) Indiana State show, 1899. 1st, 2d, 3d, and 4th cockerel, 1st, 2d, 3d, and 4th hen, 1st pullet, 3d cock, 1st and 2d pens. Eggs only \$3. Circular. R. M. GARD, Frankfort, Ind.

**EGGS** at \$1.50 per 15, from large Blue Barred Rocks, barred to the skin, yellow beaks and legs. Have bred them fourteen years. J. R. LANE, Fort Edward, N. Y.

**BUFF P. ROCKS EXCLUSIVELY.** Eggs of fine stock, \$1 per 15; \$2 per 40; \$3 per 60. Also 300 Fancy Pigeons, White A. Guineas, Wild Geese, Bees, and Belgium Hares. Circulars free. A. S. SWARTLEY, Line Lexington, Pa.

**BUFF ROCKS.** 12 Premiums at Boston, 1899. Circulars. FIELD & SON, Somers, Conn.

**FOR SALE.** Thoroughbred Ply. Rocks and White Wyandottes. Eggs for setting, one dollar for 13. Also a few White Wyandotte cockerels, three dollars each. Cash with order. Address A. M. SHETLER, 24 Amesbury St., Lawrence, Mass.

**HUDSON RIVER POULTRY FARM,** Poughkeepsie, N. Y. Breeders of America's best Buff and Barred Plymouth Rocks. Eggs from prize matings, \$2 per 15. Incubator eggs from Barred Rocks, \$5 per 100. Catalogue free. Good hatch guaranteed. EDGAR BRIGGS, Mgr.

**THE UP-TO-DATE STRAIN** of Barred Plymouth Rocks. Catalogue for stamp. Stock for sale. Eggs, \$1 per 13. Guarantee satisfaction. If you wish high quality at a fair price, Address, J. M. PORTER, Morristown, N. J.

**BARRED PLYMOUTH ROCKS.** Only first-class stock kept; raised on the farm and new blood introduced each year. Eggs, \$1 per 15, and none better. NANNIE LEVIER, Fisher P. O., Penn'a.

**BUFF PLYMOUTH ROCKS EXCLUSIVELY.** My Buffs have won highest honors at Cleveland, O., Kansas City, Mo., Mt. Gretna, Pa., Hamburg, N. Y. State Fair, Poughkeepsie, Middletown, and Oneida, N. Y., (won eight premiums on seven entries at Oneida Poultry Show, Feb. '99). A limited number of birds of the same blood as the above for disposal cheap. Eggs, \$2 per 13; \$5 per 40. H. C. FOXTON, 416 Hamilton St., Syracuse, N. Y.

**BUFF ROCKS, BURDICK AND WILLSON** strains, 13 eggs, \$2; 30 for \$4. Barred Plymouth Rocks, 13 eggs, \$1.50; 30 for \$3. L. E. SMITH, Granger, Ind.

**\$3 EGGS, \$1.** Barred Rocks, farm grown, large size, heavy layers, Ringlets. To advertise our birds, offer this season's eggs for \$1 per setting. J. E. TAYLOR, Greenville, Mich.

**BARRED PLYMOUTH ROCKS** from leading strains that are standard bred. Eggs from choice matings, \$1 per 13. R. C. W. Leg. sold. LEW H. STEWART, 940 W. Ninth, Erie, Pa.

**EGGS, \$1 per 13,** from high-class Buff P. Rocks, Buff Leghorns, White Wyandottes, R. C. Brown Leghorns, and Buff Cochins Bantams. Fowls have grass range. Satisfaction guaranteed. W. J. WIBERLEY, Peekskill, N. Y.

**BROOKLAND POULTRY YARDS,** Brookland, D. C., are now offering 15 Brown Leghorn eggs for \$2, and 13 Buff Plymouth Rock eggs for \$2, from winners of 51 regular, 8 special prizes, at Washington, D. C., 1899, Coatesville, Pa., Hamilton, Va., Southern Md. Fair, Marlboro, Md., and Rockville, Md., 1898. Write R. C. BOOTH, Mgr.

**BARRED PLYMOUTH ROCKS EXCLUSIVELY.** My yards are mated with large good shaped cockerels, that weigh from 8½ to 10 lbs. and barred to the skin. Females are large and well barred. Eggs for hatching, \$1.50 per 15; \$2.50 per 30. Satisfaction guaranteed. WM. R. PAGE, Avon, N. Y.

**BUFF ROCKS.** Pen scoring 94, 93½, 93, 93, 92½, 92½, 92, 92, by Judges Bridge and Butterfield. Eggs, \$3 per 15. Stock with score-card. B. NORTHROP & SON, Lansing, Mich.

**REMEMBER TRASK'S PLYMOUTH ROCK FARM,** when you are looking for Barred, White, or Buff P. R. cks. They won two seconds in Peabody, two firsts, one fourth, and special in Beverly, 1899. Eggs, only \$1 per 13 this season. E. F. TRASK, 210 Bridge St., Beverly, Mass.

**EGGS FOR SALE—\$1 per 15.** Barred Plymouth Rocks, Single Comb Brown Leghorns. From first-class stock well mated. Address, GEORGE W. DUVAL, Box 131, Coal Centre, Washington County, Pa.

**PLEASANT STREET POULTRY YARDS.** Barred and Buff Plymouth Rocks, Golden Wyandottes. First-class stock. Eggs from choice breeding-pens, \$1.50 per 15; \$2.50 per 30. W. P. SANBORN, Epping, N. H.

**OUR BARRED PLYMOUTH ROCKS** carefully bred. 14 years, winners at Ware, Fitchburg, and Northampton, scoring 94½, May and Atherton, judges. Eggs, \$1.25 and \$2 per 13. W. H. RIVERS, Ware, Mass.

**WHITE PLYMOUTH ROCK EGGS, \$1.50 per 15,** from first-prize winners. Cockerel 94½, pullets 96, 96, 95½, 95 at Portsmouth (Ohio) show, Feb., 1899. H. C. ROBBINS, Hamden Junction, Ohio.

**BARRED P. ROCKS EXCLUSIVELY.** Bred for business. Large, vigorous, finely barred birds mated with cockerels from Bright and Hunter strains. Eggs, \$1 per setting. ROY C. HASTINGS, Malone, N. Y.

**HICKSON'S BARRED PLYMOUTH ROCK** and White Wyandottes won eight regula and two special prizes on nine entries at Washington, D. C., Hamilton, Va., and Charlotte N. C. Eggs, \$1 per 13. Write, M. B. HICKSON, Lynchburg, Va.

**NOURSE'S WHITE PLY. ROCKS** win three regular prizes and one special at Boston, 1899. Eggs from two pens containing these winners, \$1.50 per setting. H. A. NOURSE, Box 711, Barre, Mass.

**BARRED PLYMOUTH ROCKS** exclusively. A giant cock weighing twelve pounds in ordinary breeding condition. Hens up to ten pounds, good color, bright yellow legs and beaks. Setting, \$2.50. MILTON H. TAYLOR, Box 55, Masontown, W. Va.

**WHITE P. ROCKS.—Winners** at Cape May, Trenton, and Hagerstown, the past season. One yard headed by cockerel sired by "White Cloud," the famous Fisher's Island winner. Eggs, \$2 for 15. Simplex Incubator and Brooder combined for sale. C. C. BURROUGH, Clayton, N. J.

**EGGS** from Barred Plymouth Rocks, winning at Spartanburg show, D. M. Owens, judge, 1st on cock, 1st on pullet, 1st on pair, and best trio exhibited, at \$1 per 13. Satisfaction guaranteed. W. W. FANT, Spartanburg, S. C.

**WHITE PLYMOUTH ROCKS.** Farm raised, strong, and healthy. Eggs, \$1.50 per 15; \$2.50 per 30. 13 Indian Game hens and 1 cock for sale. M. HARVEY IVINS, Penn Valley, Pa.

**NOYES** Breeds Buff Plymouth Rocks of Burdick's Nugget strain, one of the best in America. My stock were hatched from eggs bought direct from him, and I have some nice ones, good size, shape, and light buff, with buff undercolor to skin, no white nor feathered legs, low combs. Eggs, \$2 per 13, good hatch guaranteed. P. W. NOYES, Mystic, Conn.

### LEGHORNS

**CEDAR HILL POULTRY FARM—Write** to Cedar Hill Fruit and Poultry Farm for prices on Single Comb Brown Leghorn, Barred P. Rock, Buff Cochins and Light Brahma fowls and eggs. Some fine surplus cockerels of first-named breeds for sale low. Eggs for incubator use \$5 per 100; good common eggs (large breeds), \$2.50 per 100. R. S. COLE, Harmons, Md.

**FORSYTH STRAIN S. C. BROWN LEGHORNS.** 33 prizes on 33 entries at Rochester, Dansville, and Hamburg. My breeders score from 90 to 94. Eggs, \$1 per 15; \$1.75 per 30. Satisfaction guaranteed. FRANK G. RICE, Dansville, N. Y.

**S. C. BROWN LEGHORNS.** Tenth season. Eggs, \$1. Choice Cornish Indians, Light Brahmas and B. P. Rocks' Eggs, \$1.50. HOWARD A. PINNEY, Sheffield, Warren Co., Pa.

**WE HAVE LAYING QUALITIES,** size, typical shape, standard color, in S. C. B. Leghorns; what more can you ask? Eggs, \$1.50 per 13; \$2.50 per 26. W. B. GERMAN, Specialist, Millville, Pa.

**BUMP'S S. C. WHITE LEGHORNS** made nearly a clean sweep at Cambridge and Johnston last fall. Eggs from my best mating \$2 per 15; \$5 per 100; from birds with free range. A few good cockerels at \$2 each. White Holland Turkey eggs \$2 per 13. H. V. BUMP, Cambridge, N. Y.

**50 C. PER DOZEN, \$3.50 per hundred,** Wyckoff strain. White Leghorn eggs. Circular free. S. J. BISHOP, Cheshire, Conn.

**SOUTH SIDE POULTRY YARDS.** Golden Wyandottes and Buff Leghorns. Prize winners at Ashtabula and Painesville. 4 fine breeding yards mated to produce the best results. Birds scoring from 90 to 95½ points. Eggs, \$1.50 per setting. C. F. BLACKMON & SON, 116 South St., Painesville, Ohio.

**PLEASANT VIEW POULTRY YARDS.—**Rose Comb Brown Leghorns which have again been winners at all the leading shows. 1st cockerel at Madison Square Garden, 1st cockerel at Boston, 1st cockerel at Hagerstown, 1st cock at Mt. Gretna. Stock for sale at all times at reasonable prices. Eggs for hatching, \$1 per setting. Address, W. G. FRONHEISER, Prop., Pottstown, Pa. J. B. HOFFMAN, Mgr., Sanatoga, Pa.

**S. C. B. LEGHORNS EXCLUSIVELY.** 15 eggs for \$1, from choice prize-winning stock. Good healthy birds, well mated, sure to please the purchaser. A trial order will convince you. 1898 Pullets for sale. WEBER W. MAST, Coatesville, Pa.

**S. C. B. LEGHORNS EXCLUSIVELY.** Eggs fifty cents per 13; \$2.50 per hundred. I breed from winners. Satisfaction guaranteed. E. V. LANE, Lacon, Ill.



**SINGLE COMB WHITE LEGHORNS.** My breeding-yard is headed by 1st cockerel at Pittsburgh, 1898, a large fine bird mated with 15 Wyckoff females, four of which won 2d on pen at Washington, D. C., 1899. Eggs, \$1 per 15; \$3 per 50. A few pullets, \$1 each, 6 for \$5. Also Barred and White Plymouth Rock eggs same prices as Leghorns. My Rocks are bred for utility. Correspondence invited. C. M. BARTLETT, Agnewville, Prince William Co., Va.

**S. C. BROWN LEGHORNS.** Double matings for size, shape and striping of saddle and hackle, which is my hobby; also fine combs and lobes. Eggs, \$1 per 13. Hatch guaranteed. WILLIAM QUIGLEY, 3618 Market St., Philadelphia, Pa.

**CHOICE UP-TO-DATE STOCK** of Single Comb Brown Leghorns and Silver Laced Wyandottes. Stock for sale. Satisfaction guaranteed. Eggs, \$1 per 13. If you wish fine quality and fair treatment, address J. M. PORTER, Morristown, N. J.

**BLANCHARD'S WHITE LEGHORNS,** the leading strain of heavy layers. Breeders the best from 1200 carefully bred birds. Eggs for hatching. Circular free. H. J. BLANCHARD, Box F, Groton, Tompkins Co., New York.

**CLOSING OUT SALE** of S. C. White and Brown Leghorns, 140 females and 10 male birds. Have bred Leghorns for twelve years and won over 200 prizes on these varieties. Good opportunity to get fine birds reasonable. C. HAMMERSCHMIDT, South Buffalo, N. Y.

**BROOKLAND POULTRY YARDS,** Brookland, D. C., are now offering 15 Brown Leghorn eggs for \$2, and 13 Buff Plymouth Rock eggs for \$2, from winners of 51 regular, 8 special prizes, at Washington D. C., 1899. Coatsville, Pa., Hamilton, Va., Southern Md. Fair, Marlboro, Md., and Rockville, Md., 1898. Write R. C. BOOTH, Mgr.

**BUFF LEGHORNS EXCLUSIVELY.** I breed the "buff" recognized by the Standard, rich golden plumage and prolific layers. Have won wherever shown. Eggs, \$1.25 per 15. Incubator lots at reasonable rates. Fine stock a matter of correspondence. L. H. WOODRUFF, Shick-shinny, Pa.

**S. C. BROWN LEGHORNS** exclusively from America's best strains, winning at Rochester, Jan., '99, 3 firsts, 4 seconds, 2 fourths, 7 specials. Stock and eggs in season. LEONARD SWEET, Amsterdam, N. Y.

**EGGS FOR HATCHING** from Rose and Single Comb Brown and White Leghorns, \$1 per 13; \$2 per 39. PLEASANT VALLEY POULTRY YARDS, Felchville, Vt. 12 years a breeder. Fine stock.

**BUFF LEGHORNS**—Pure buff beauties. Send for circular, list of premium-won since 1891. Eggs from prize winners \$3 per 15. L. D. ATWATER, HEATHER BELL FARM, Waverly, N. Y.

**BUFF LEGHORNS EXCLUSIVELY.** Won in '98, 1st cock, Mt. Gretna; 1st pen, 2d pullet, Carlisle; 2d pen, 2d cock, Hagerstown. Eggs from best yards, \$1.50 per 13. W. H. KENDIG, Newville, Pa.

**BUFF LEGHORNS,** 15 eggs \$1. Best catalogue ever issued on this peerless breed. V. MARKEN, Frederick, Md.

**I BREED BUFF LEGHORNS ONLY.** 2 fine pens, Arnold and Fulton strains. Fresh, fertile eggs. Satisfaction guaranteed. Eggs, \$1.50 per setting of 15. \$4 per 50. EDWARD BATES, Newark, Ohio.

**ROSE COMB WHITE LEGHORNS** exclusively. Eggs for sale from large, vigorous stock, \$1.50 per 13. If you want the best procurable address, G. T. SEELYE, Burnt Hills, N. Y.

**SINGLE COMB BROWN LEGHORNS.** Scores running from 92% to 94%. Fine carriage, rich plumage, dark undercolor. None better. Eggs, \$1. JOHN A. KISTER, Mill Brook, Ohio.

**S. C. WHITE LEGHORNS,** Knapp strain. Pen headed by 1st-prize bird at the big Rochester show. Eggs, \$1 per setting. C. A. HUBACHEK, 462 Jay St., Rochester, N. Y.

**FERTILE EGGS** that hatch. S. C. White Leghorns exclusively. \$1 per 13; \$3 per 50; \$5 per 100. W. WARREN, Ran-omville, N. Y.

**SINGLE COMB BROWN LEGHORNS.** C. L. Corbett's strain, bred from the prize winners at the greatest American shows. Eggs, \$2 per setting. WILLIAM CORBETT, Box 554, Watkins, N. Y.

**ROSE COMB BROWN LEGHORNS.** The White Colony of a few settings, choicely mated, @ \$2 per thirteen. H. E. COLE, Florence, Mass.

**BUY EGGS FROM PRIZE WINNERS** Rose Comb Buff Leghorns. The coming fowls of the 20th century, having won highest honors at the leading shows the last season. Also prize winners Buff Rocks and 'Dottes. Stamp for circular. HOME BUFF POULTRY YARD, F. S. ZWICK, Prop., Seymour, Conn.

#### BRAHMAS

**CHESTNUT GROVE POULTRY YARDS** JOSIAS J. GEORGE, Proprietor. Yards at Jenkins P. O., Long Green Valley, Baltimore Co., Md. City address, 443 North Street, Baltimore, Md. Light Brahmans Exclusively. Early-hatched cockerels and pullets for sale. Cockerels, \$3 to \$5; trios, \$5 to \$8. Yard headed by cockerel 1st prize at Washington, 1897.

**CHOICE UP-TO-DATE STOCK** of Light Brahmans, the Duke of Morris strain. I have the cream of the late Stephen Spencer's stock in my yards. Stock for sale. Eggs, \$1 per 13. Satisfaction guaranteed. J. M. PORTER, Morristown, N. J.

**AT MADISON SQUARE GARDEN, '99,** MY Light Brahmans won three firsts, three seconds, one fourth and two Silver Cups. Eggs from pen headed by first cockerel or second cock, \$4 per 13. ALBERT L. SESSIONS, Bristol, Conn.

**FOR SALE.**—Dark Brahmans, one male and three females. Fine stock. Write for particulars. Mention The Feather. A. GILLETTE, Canaan, Litchfield Co., Conn.

**LIGHT BRAHMANS.**—Bred from Cost's, and Williams' stock. Fowls and eggs for sale. Eggs, \$1 per 15. Satisfaction guaranteed. BERNARD THROCKMORTON, Snickersville, Va.

#### GAMES

**CHAS. T. CORNMANN,** Carlisle, Pa., breeder and exhibitor of Black Breasted Red Games and Black Breasted Game Bantams. Winners at the largest shows in America. A few birds of high quality for sale. Eggs in season.

**EXHIBITION B. B. R. GAMES.** My birds won this year at St. Louis, Palmyra, Peoria, Springfield, and Chicago. Will sell eggs from winners at \$3 per 13. Address J. M. HOWLEY, Springfield, Ill.

**INDIAN GAMES**—Cornish and White, one of the best flocks in this country. Won prizes at New York this year and last. A lot of good ones for sale. Eggs, \$3 per 13. Imported Booted Birmingham Rollers, \$3 a pair. DR. EDW. MOORE, Albany, N. Y.

#### WYANDOTTES

**WYANDOTTES, GOLDEN, BUFF, AND** Partridge, McKeen strain, winners at Chicago, Washington, D. C., Davenport, Iowa, Mid-Continental, Kansas and Nebraska State shows. Stock and eggs for sale. Send stamp for catalogue. W. A. DOOLITTLE, Sabetha, Kan.

**SILVER WYANDOTTES EXCLUSIVELY.**—Winners and layers; healthy, vigorous stock. Surplus all sold. Hatching now for fall sales. Tip top matings. J. M. HAMBLIN, HIGH-LAWN FARM, Vienna, Fairfax Co., Va.

**SILVER WYANDOTTES.**—I have for sale 15 cockerels for \$2 to \$5; 1 cock \$3; 12 females \$1 to \$3. Satisfaction guaranteed. R. G. WILLIAMS, Barre, Mass.

**BUFF WYANDOTTES EXCLUSIVELY.** Buff to the skin. Great winter layers. Eggs from best matings, fifteen for \$1.50; thirty for \$2.50. W. P. PRATT, Chatham, N. Y.

**SILVER LACED WYANDOTTES** exclusively. Ten years' experience with this breed alone and I think I have as good stock as any one, although my prices are not as high as some. If you want either fowls or eggs write me and I will do my best to please you. C. N. GILBERT, Flint, Mich.

**WHITE AND BUFF WYANDOTTES** and Black Langshans, winners of 48 prizes at Mt. Gretna, Carlisle, Hagerstown, and Pittsburg. Eggs from winners \$1.50 per 13. Stock for sale. ARMBRUST BROS., Armbrust, Pa.

**EGGS THAT WILL HATCH** from best strains White Wyandottes and Single Comb White Leghorns, \$1.50 per 15; \$5 per 100. Satisfaction guaranteed. W. E. SHOEMAKER, Laceyville, Pa.

**WHITE WYANDOTTES** at Boston, '99, in the largest and hottest competition, I won ten regular and special premiums. My birds are white, correct shape, and bred for business. Eggs, \$2 per 15. F. H. FULLER, Box D, Hinsdale, N. H.

**WHITE WYANDOTTES EXCLUSIVELY.** They have the shape, color, and are prolific layers of brown eggs. Best all-around breed. Eggs, \$1.25 per 15; \$5 per 100. R. S. GLEASON, Colebrook, N. H.

**WHITE WYANDOTTES EXCLUSIVELY.** Standard bred, prolific layers. A fair hatch guaranteed. Eggs, \$1 per 13. GEORGE C. ARMSTRONG, Nyack, N. Y., Box 620.

**THE TERRACE POULTRY YARDS.** White Wyandottes exclusively. Beauty and utility combined. Winners at the following shows in 1898: Mt. Gretna, Pa., Hagerstown, Md., West Chester, Pa. Eggs, \$2 per 13. ALLEN C. ROBERTS, Spring City, Pa.

**WARE SHOW,** on my "Silvers" I won 4 firsts 1 third, 5 specials. First-prize hen 92% weighed 8 lbs., in laying condition. Standard weight birds, dark-egg strain. Eggs, \$2. Stock for sale. R. G. WILLIAMS, Barre, Mass.

**STANDARD-BRED WHITE WYANDOTTES.** Hardy, vigorous, prolific layers. Eggs, \$1 per setting; \$5 per 100. Pekin Ducks' extra large eggs same price. Some fine stock for sale. HUNSBERGER BROS., South Hatfield, Pa.

**HUDSON RIVER POULTRY FARM,** Poughkeepsie, N. Y., breeders of prize-winning White and Buff Wyandottes. Eggs from prize matings, \$2 per 15. Incubator eggs, \$5 for 100, from choice stock, good hatch and satisfaction guaranteed. Catalogue free. EDGAR BRIGGS, Manager.

**WHITE WYANDOTTES EXCLUSIVELY.** Bred from Forsyth and Knapp strains. Farm raised, free range. Brown eggs, \$1 per 15, or \$5 per 100. LETITIA THOMPSON, Penns Park, Pa.

**BUFF WYANDOTTES.** 12 Premiums at Boston, 1899. Circulars. FIELD & SON, Somers, Conn.

**BUFF WYANDOTTES.**—Made 38 entries at Madison Square Garden, N. Y., Washington, D. C., Hagerstown, Md., Mt. Gretna, Pa., Poughkeepsie and Middletown, N. Y. Won 20 firsts, 7 seconds, 2 thirds, 3 fourths, 1 fifth, and 11 specials including a 400 egg P. S. Incubator, \$5 Gold State Medal, etc. Eggs from solid buff birds \$3. Catalogue free. DANIEL L. STAUFFER, Spring City, Pa.

**BUSINESS BIRDS.** White Wyandottes exclusively. Duston and Knapp Bros., strain. Prolific layers. Eggs, \$2 per setting (15); 3 setting \$5. Circular for the asking. Mention The Feather. RALPH WOODWARD, New Rochelle, N. Y.

**QUALITY NOT QUANTITY.** Golden and White Wyandottes. Eggs, \$1 per 13. Would exchange Mann's No. 2 Bone Cutter with power attachments for 100-egg Prairie State Incubator. W. B. SANFORD, Manchester, N. H.

**EXHIBITION WHITE WYANDOTTES** mated for pure white plumage, symmetrical beauty, utility, and vigor, the production of years of careful breeding. Eggs from pens of diffused blood, 2 settings \$5; single setting \$3. Choice pullets and males for sale. Enclose stamp for description and price. PARAGON POULTRY YARDS, Danbury, Conn.

**BUFF WYANDOTTES.** At Ware, Mass., Jan., '99, highest scoring Buff in show was my first pullet, 94. At Fitchburg, Dec., '98, highest scoring Buff Wyandottes, 94%. Eggs from fine birds, \$2 per 15; \$4.50 per 40. G. W. FELTON, Barre, Mass.

**EXTRAORDINARY SIZE AND CORRECT** buff color are desirable characteristics of my Buff Wyandotte prize winners. Golden Wyandottes too. Eggs, \$1.50 per 15; \$2.50 per 30. H. M. DOTY, Chatham, N. Y.

**WHITE WYANDOTTES EXCLUSIVELY.** 98 winnings at Mt. Gretna, 1st cock; West Chester, Pa., 1st pen, 2d hen, 3d cock, 2d cockerel, 3d pullet; Washington, D. C., '99; 1st cockerel, 2d hen. Eggs, and a few choice pullets for sale. J. B. PYLE, Cossart, Pa.

**WHITE WYANDOTTE** eggs that will hatch prize-winning stock, \$1 per 15. Pure White "Bull Terrier" dog at stud, eligible to registry, fee \$5. F. W. TEMPLE, West Chester, Pa.

**FRANK L. GARDNER,** Fitchville, Conn., breeder of prize-winning White Wyandottes "Stay White" strain. Eggs from prize matings at \$2 per 15. Incubator eggs, \$5 per 100. Satisfaction guaranteed.

**THEODORE HEWKE,** May's Landing, N. J., WHITE WYANDOTTE POULTRY FARM. White Wyandottes exclusively. Fine cockerels and pullets for sale. Prize winners. Eggs, \$2 per setting. \$5 per hundred.



**D MULLEN**, Indiana, Pa., Partridge Wyandottes, White Wyandottes, and Golden Penciled Hamburgs.

**CHAS. E. SELCHOW**, Port Chester, N. Y. White Wyandottes from the finest strains in America; Buff Leghorns from Blood and Shepherd strains. One of my Wyandotte pens is headed by cockerel 2d at New Jersey State fair and 2d at Hagerstown, with pullet 1st at Mt. Gretna, also 2d hen at New Jersey State fair, all in 1898. Eggs, \$2.50 per setting.

### MINORCAS

**BLACK MINORCAS EXCLUSIVELY.** Bred from imported stock. First pen at Boston, '98 and '99. First on eggs, '98 and '99. Eggs, \$2 per 12. **GEORGE H. DEXTER**, Everett, Mass.

**BLACK MINORCAS EXCLUSIVELY.** (North up strain.) Fine, large, vigorous, healthy birds, bred from my Washington prize winners. Stock and eggs for sale in season, good hatch guaranteed. **THE FEATHER**, one year with egg order. **E. D. CROUCH**, 1013 G Street S. E., Washington, D. C.

**JOE KRENN**, 114 Beecher St., Syracuse, N. Y., breeder of prize-winning Black Minorcas noted for size and color. My Minorcas won at Seneca Poultry show in 1897, out of 3 entries took 1st, 2d, and 3d. Score, 95, 94, 93½. Eggs, \$2 per 13; \$5 per 40.

**BREEDERS AND SHIPPERS** of Champion Black Minorcas. Most fashionable and prize-winning strains in the land. Also Black-tailed Japanese Bantams. Eggs for sale. **H. B. GREGORY & SON**, Akron, Ohio.

**THOMPSON'S MINORCAS**—Won at Boston, '99, 5 1sts, 1 special, 2 2ds, 1 3d; at New Haven, 1st on cock, cockerel, hen, and 2d on hen and pen. Also bred Buff Rocks. Catalogue. **C. A. THOMPSON**, Melrose, Conn.

**A GRAND OPPORTUNITY** to procure high-class Black and White Minorcas and White Wyandottes. Old and young stock for sale. Eggs in season. **GLENN H. JOHNSON**, Groton, N. Y.

**WHITE MINORCAS.** Bred for practical and exhibition purposes. My yards are mated with birds that are large size, grand shape, fine comb, and superb color. Eggs, \$1.50 per 13; \$2.50 per 26. Satisfaction guaranteed. **L. H. MORSE**, Newark, New York.

**S C. BLACK MINORCAS EXCLUSIVELY.** Nothing but high-scoring birds in my yards, mated to produce exhibition birds. No stock for sale. Eggs, \$2 per 15, or \$3 per 30. **A. G. STULTZ**, Sunbury, Ohio.

**WHITE MINORCAS** and Rose Comb Black Minorcas eggs for hatching from choicest matings, \$3 per setting; \$5 per 30. Six Rose Comb cockerels for sale. **MRS. J. OSBORNE**, Fabius, N. Y.

**MRS. ALICE A. HUNGERFORD**, Jamesville, N. Y. White Minorcas exclusively. Fine thoroughbred stock, large size, direct from Mrs. J. G. Osborne's prize-winning stock. Eggs, \$2 per 15; \$3 per 30.

**G R. WILLSON & SON**, Rome, N. Y., originators and breeders of the Metallic-Green strain of Black Minorcas, great station and heavy weight. Also Buff Rocks, clear hackle and buff to the skin. Send for circular containing prize-winnings and matings of eight grand pens. Eggs, \$2.

**SINGLE COMB BLACK MINORCAS**—(North-up), B. P. Rocks (Thompson and Conger). My birds are grand in shape, color, and up in weight, not one bird in my yards scoring less than 92, and as high as 95. Twenty years breeding thoroughbred poultry. Eggs, \$2 per 15. **SID. SMITH**, South Whitley, Indiana.

**BELMONT STRAIN BLACK MINORCAS** contains the best Minorca blood in the country. They are all standard weight or over, and are extra good in all other points, especially as layers. Eggs at \$1 per 13, and satisfaction guaranteed, or I will refund your money. Write me. **O. W. TAYLOR**, Tyrone, Blair Co., Pa.

### LANGSHANS

**F C. BEACH**, Plain City, O., breeder of Black Langshans exclusively. Eggs, \$1.50 per 13. Birds for sale.

**BLACK LANGSHAN EGGS** from my two best pens, \$2 per setting; 3 settings \$5. 7 chicks guaranteed or order duplicated free. My birds lay large, very dark brown eggs, are large and vigorous, and can win a prize or two in hot competition. **C. I. DROWNE**, Sandown, N. H.

**WHITE LANGSHANS.** At N. Y. '97 and '98, won 5 firsts, 2 seconds, 5 thirds. Eggs, best pens, \$3; others \$2. Also Buff P. Rocks. **R. L. BLAIR**, Castle Creek, N. Y.

**BLACK LANGSHANS** and White Plymouth Rocks. Choice strains of both breeds. Eggs for hatching \$1.50 per 13. I have some fine Langshans for sale. **FRANK I. AHERN**, Box 51, Laurel, Md.

**3021 EGGS FROM MY PRIZE PEN** of large Black Langshans, prince of fowls as winter layers. My way of egg production, and 15 eggs from this pen, \$1. N. G. CUSHMAN, Poultney, Vt.

**BLACK LANGSHANS EXCLUSIVELY.** More than 300 prizes won in the last six years. Choice stock for sale. Eggs, \$2 for 15. Write **J. L. JOHNSON**, the Langshan Man, Sabina, Ohio.

**BLACK LANGSHANS.**—Farm raised, strong, and healthy. Stock raised from first-prize birds at New York show. Eggs, \$1.50 per 15; \$2.50 per 30. **M. HARVEY IVINS**, Penn Valley, Pa.

### BANTAMS

**COCHIN BANTAMS.**—Buff, Black, and White. If you are in want of Cochin Bantams write and see what I can do for you. **ROWLAND G. BUFFINTON**, Box 677, Fall River, Mass.

**HOW IS THIS?** Washington, Hackensack, Elmira, and West Chester, Hartford, Boston, and New York, 30 entries, 34 prizes on Silver Sebright Bantams. Stock for sale. Sell no eggs. **A. C. TREICHLER**, M. D., Elizabethtown, Pa.

**AT WASHINGTON, D. C.**, won 15 prizes on 15 entries, on Golden and Silver Sebrights, Silkies, Bearded and Non-bearded White Polish, Buff, White, Black, Partridge, and Cuckoo Cochins, Brown Red, Red Pyle, and Birchen Game Bantams. No eggs. Stock for sale. **W. W. WALLICK**, York, Pa.

**B. B. R. GAME BANTAM EGGS** for \$2 a setting from prize-winning birds. Satisfaction guaranteed. Winners at Carlisle, York, and Schoharie, New York. Golden Sebright eggs at same price. **WOLFORD BROS.**, Props., Hanover, York Co., Pa.

**MY BREEDING YARDS** of Buff Cochin Bantams contain only carefully selected birds; even in color, heavily feathered, typical Cochin shape. Eggs, \$2 per setting. Birds for sale. **C. E. ROGERS**, New Market, New Jersey.

**WOODCLEFT STRAIN.**—Having purchased the entire stock of this most noted strain from Mr. C. S. Powell, I am prepared to offer eggs at only \$2 per 13, or \$3 per 26. Orders booked now. These birds are world beaters, having won at New York, Boston, and Washington. Address, **L. L. LUCAS**, Oil City, Pa.

**J. F. KIRKPATRICK'S** Buff and Black Cochin Bantams are sure winners. Winners at Mt. Gretna, Trenton, Hagerstown, Washington, New York. To strengthen have purchased 1st N. Y. Buff cockerel. Stock and eggs for sale. Eggs, \$3. **EASTON HEIGHTS POULTRY YARDS**, Easton, Pa.

**LIGHT BRAHMA BANTAM EGGS.** From our famous winners at Madison Square Garden, N. Y., 1898-9, at \$5 for one setting, or two settings for \$8. Satisfaction guaranteed. **GEO. W. HILLSON**, Amenia, N. Y.

**PALACE BANTAM YARDS, A. J. HILTON**, Amsterdam, N. Y. Good birds for sale cheap. 4 Buff and 1 Black Cochin cocks and cockerel, \$1 each; 2 Golden Sebright cocks, \$1.25 each; 1 Silver Sebright cock, \$1.50; 3 B. B. Red Games, (Parker stock) cocks, \$2.50 each; 4 Black-Tailed Japanese cock and cockerels from imported stock, \$3 each. First come first served.

### POLISH

**POLISH.** S. F. Gulliford, Akron, Ohio. Importer and breeder of White Crested Black, Bearded Silver, Bearded Golden, and Bearded Buff Laced Polish, also Silkies of the finest quality. It has been my aim for many years to breed these beautiful fowls to the highest standard of perfection. My show record stands as evidence. Birds for sale at all times and eggs for hatching in season.

**CHAS. L. SEELY**, Afton, N. Y., the veteran Polish breeder of America, has a few more White Crested Black Polish breeding birds. Singly, pairs, or trios. Write for my record of over 50 years breeding Polish. Eggs for hatching.

**WHITE CRESTED BLACK POLISH** Exclusively. Remember I have the winners at such shows as Chicago, Ill., Cleveland, Ohio, Delaware, Ohio, Sunbury, Ohio, and Columbus (Ohio) State Fair. Stock and eggs for sale. Write wants to-day. If not, why not? **MRS. AUSTIN G. STULTZ**, Sunbury, Ohio.

**R. E. SMITH**, Afton, N. Y., is prepared to furnish stock and eggs from his famous Gilt-edge strain of White Crested Black Polish, and Buff Rocks. None better. Eggs in season \$2 per 13; \$3 per 26. Prize record and circular free. Write for one.

### HOUDANS

**HOUDANS AND WHITE HOLLAND TURKEYS.** High-class stock, with free range. Houdan eggs, \$1 per 13; \$3 per 40. Turkey eggs, \$2 per 11. **G. A. HOBART**, Chittenango, N. Y.

**W. M. A. WEIS**, 70 North Hancock St., Wilkes Barre, Pa., breeder of Houdans that are of standard weight and up to date in shape and markings. My Houdans were winners of 1st and 2d premiums at Washington, Wilkes Barre, Scranton, Plymouth, the great Rochester, and two 2ds at Madison Square Garden, 1898. My Houdans are noted for fine crests, beards, and markings. Eggs, \$2 per 15. Satisfaction guaranteed.

### SPANISH

**W. F. B. SPANISH**—Prize winners at Cedar Rapids, Iowa, January 21, '99, 2d on cock and 2d on hen. Eggs in season; also Fancy Pigeons for sale. **P. ANDERSON**, Box 221, Marshalltown, Iowa.

### COCHINS

**BUFF COCHINS**—Winners at Mt. Gretna, Hanover, West Chester, York, Carlisle, and Hagerstown, in 1898, and are true Cochin shape, heavily feathered, large size, and proper color. Eggs from above winners, \$3 per 15. **ALLEN E. SPANGLER**, Hanover, Pa.

**WE** have enlarged our plant, and are breeding more and better Buff Cochins than ever. At Hagerstown, '98, we won 1st and 4th cockerels, 1st and 4th pullets, 1st, 2d, and 3d hens, and 2d pen. Not one inferior specimen in our yards. Eggs, \$3 per 13. **ANTIETAM POULTRY YARDS**, A. W. RUDY & SON, Hagerstown, Maryland.

**MASSIVE COCHINS**, solid buff, heavy feathering, standard shape, wonderful layers. 15 eggs \$1.25. Good hatch guaranteed, distance disregarded. Worth twice the money. Write **LOUIS LUNDBERG**, 505 Fifth Street, Rockford, Illinois.

**BLACK COCHINS.** Won 4 prizes on 4 entries at New York show 1899. Eggs \$2. A few very fine Buff Cochins at \$1.50 each. Eggs, \$1.25. **WHIPPANY FARM**, Morristown, N. J.

**BUFF COCHINS.**—A few choice cockerels for sale at \$3 each. Eggs, \$2 per 13. **T. J. O'BRIEN**, 2616 Bedford Ave., Pittsburg, Pa.

**E. DREW**, Avon, Mass. **PRO BEACH ISLAND POULTRY FARM**, has for sale beautiful White and Buff Cochins. Exhibition birds, from \$5 to \$10 each. No cheap birds to sell.

### JAVAS

**OUR BLACK JAVAS**—Won five 1st at Boston, 1899. Circulars. **FIELD & SON**, Somers, Conn.

**ROYAL BLACK JAVAS.** Eggs, \$2 per 15. Still some fine stock left. Write your wants. **W. W. SUTHERLAND**, Bushfield, Pa.

### ANCONAS

**MOTTLED ANCONAS**, handsome birds, great layers. 15 Eggs \$2. Single Comb Brown Leghorns, 15 eggs \$1. **A. GORDON**, 209 Chestnut St., Towanda, Pa.

**ANCONAS.**—Six grand matings. Two best strains in America. Orders for eggs promptly filled at \$1.50 per 15. Circular free. **J. L. BUMP & SON**, Whitney's Point, N. Y.

**J. M. FENSTERMACHER & SON**, Telford, Pa., breeders of pure Mottled Anconas. Eggs, \$1.50 per 15. For sale pullets and cockerel of Single Combed B. Plymouth Rocks.

### R. I. REDS

**RHODE ISLAND REDS.** These handsome fowls are prolific layers of large brown eggs. Rose or Single Comb. Eggs, \$1 per 13; \$2 per 30. **A. E. CUMMINGS**, Hudson, New Hampshire.

### INDIAN GAMES

**CORNISH INDIAN GAMES**, Carpenter's prize-winning strain. The Gentleman's Fowl. Stock and eggs for sale. Also bred first-class Black Minorcas, Barred Plymouth Rocks and Muscovy Ducks. **H. M. CARPENTER**, Sing Sing, N. Y.



## ORNAMENTAL

**RING NECK MONGOLIAN OR ENGLISH**  
Pheasants. Birds and eggs for sale. Eggs, \$2 per 15; can hatch under chicken hens.  
MARTIN DIETRICH, Box 493, Fulton, N. Y.

## DORKINGS

**SILVER GRAY DORKINGS EXCLUSIVELY.**  
Won eleven prizes at Boston and New York, including four firsts and specials. Eggs from three grand pens, \$2.50 per 13; \$4 per 20.  
WATSON WESTFALL, Box 41, Sayre, Pa.

## HAMBURGS

**CLOSING OUT**—My entire lot of Golden Spangled Hamburgs. Some with score-cards at half price. Eggs, while chickens last, 30 for \$1.50. JAMES SCHRUBB, Urbana, O.

**JULIUS FRANK**, Sherbondy, Ohio, Box 136 A. Breeder and exhibitor of Hamburgs exclusively. Have for sale first-class stock only. Eggs in season. Look up my last Chicago show record.

## TURKEYS

**150 BRONZE TURKEYS**, bred by my 45 and 47 lb. toms, and 22 to 33 lb. hens. For great size, grand plumage, and form my birds have no equal. Sure winners and elegant breeders at fair prices. Stamp for reply. GEO. WOLF, Seneca Falls, N. Y.

## DOMINIQUE

**AMERICAN DOMINIQUE**.—My Dominiques are well marked, good size, and bred for business, hardy, and extra winter layers. Eggs, \$1 per 15. C. E. HATCH, Matteawan, Dutchess Co., New York.

## DUCKS

**HUDSON RIVER POULTRY FARM**, Poughkeepsie, N. Y. Eggs from prize-winning Pekin Ducks, \$1 per 12; \$6 per 100; \$50 per 1,000. 350 breeders on hand. Eggs running 90 per cent fertile in February. Catalogue free. EDGAR BRIGGS, Mgr.

**IMPERIAL PEKIN DUCKS**. Eggs for hatching, 11 for \$1.50; 22 for \$2.75. Address E. A. ALDHIZER, New Hope, Va.

**PEKIN DUCK EGGS**, from prize stock. Ducks are large and heavy layers. Pens headed by prize drakes. Eggs, \$1.50 per 13. P. ANTHONY & SON, Great Barrington, Mass.

**FAUQUIER POULTRY YARDS**, Bealeton, Virginia, breed exclusively Imperial Pekin Ducks. First-prize young drake Washington show, Jan. '99. Satisfaction and minimum express charge guaranteed. Postal gets circular.

**EGGS FOR HATCHING** from choice Pekin Ducks, \$1.50 per 12; \$7 per 100. MRS. LENA CARTER, L. Box 31, Alexandria, Va.

**PEKIN DUCKS**.—Eggs from a few large, white specimens feeding on my mill pond, McClave stock, \$1 per dozen. JOHN A. KISTER, Mill Brook, Ohio.

**MAMMOTH PEKIN DUCKS**, clear yellow bills winning 1st on duck and drake, special on pair, Barnstable, Dec., 1898, Atherton, Judge. Eggs, \$2 per 15. E. W. SEARS, West Dennis, Mass.

## RABBITS

**CHAMMERSCHMIDT**, S. Buffalo, N. Y., headquarters for large Belgian Hares, bred up to standard in size, color and weight. 40 breeding Bucks for sale, cheap, if taken soon, for want of room.

## FANCY PIGEONS

**G. A. FICK**, 1300 N. Washington Street, Baltimore, Md., breeder of prize winners, Magpies and Swallows in all colors. Prices reasonable considering quality of stock.

**25 PAIRS WHITE FANTAILS** at \$5 and upwards a pair, bred from imported and best American strains. E. A. HOLBROOK, Winchester, Mass.

**FOR SALE, EXHIBITION BIRDS** in Pouters, Carriers, Blondinettes, Satinets, Silverettes, Turbits, Frillbacks, Swallows, Snells, Archangels, Dragons, Tumblers, Moorcocks, Magpies, Owls, Nuns, Bruner Pouters, and Black Baldhead Tumblers. Satisfaction guaranteed. J. H. MEHRING, Littlestown, Pa.

**SPAIN** has yielded to America's demands and the Filipinos are gradually yielding. CHAS. W. MATTHIAS, of No. 1002 Lincoln St., Milton, Pa., has yielded to the people's demands for reduced prices on Fancy Pigeons, and the prices are lower. Try me.

**FOR SALE**.—Homers and Tumblers in all colors. Also Fantails, Magpies, Pouters, Jacobins. My prices are right and birds first class. LARRY F. GOLDY, East Third Street, Williamsport, Pa.

**FOR SALE CHEAP** all kinds and colors of Fancy Pigeons, single or double, 500 to select from. Outside Tumblers, 75c. and \$1 a pair; Homers, 75c. a pair. Money back if dissatisfied. Stamp for reply. SOMERSET PIGEON LOFTS, Somerset, Mass.

**SACRIFICE SALE**.—Dutchess Pigeons, best squabs for market, 90c. a pair; 6 pairs \$5. Mixed Colors. Draft or Money Order.  
A. W. PARKER, West Chester, Pa.

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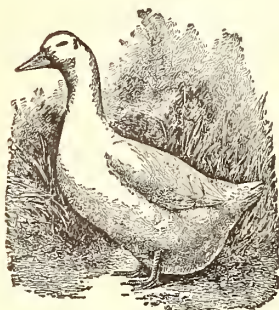
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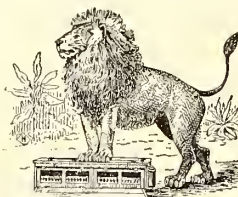
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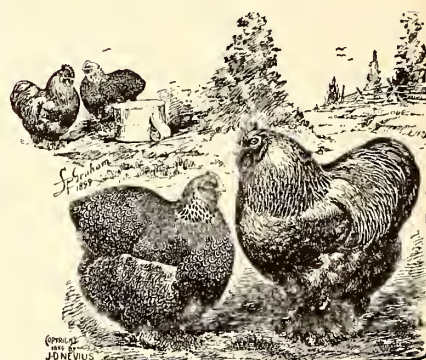
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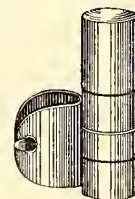
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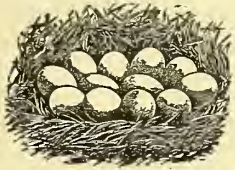


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Deal with me, the originator and breeder of the finest dark-egg strain in America. And the only strain that pleases both the fancier and the practical poultryman. In the great egg display at the Boston show Jan. '98, my strain was King, winning first and second for best dozen brown, first for heaviest dozen (any color), first for best dozen Wyandottes, and Farm-Poultry's special \$10 in gold for the best and largest twenty-four or more Wyandotte eggs. The next week at the State show, St. Johnsbury, Vt., with eighteen birds, twelve entries, I won in strong competition twenty-three regular and special prizes, the best collection of W. Wyandottes, three specials for best breeding-pens, and special for best cock, cockerel, hen, and pullet. Stock and eggs for sale.

W. E. MACK, Woodstock, Vt.



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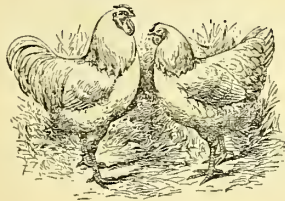
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Light Brahmas,  
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White Plymouth Rocks,  
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White Cochins,  
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First-Price Cock at New York.

of our breeding in the hands of customers the past season?  
**WELL, DIDN'T IT**

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**PURITAN POULTRY FARMS, Stamford, Conn.**

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There is nothing better than

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For laying machines; they lay in season, and out of season.

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\$2 per 13; \$3 per 26; \$4 per 39; \$5 per 52; \$6 per 65; \$6.50 per 78; \$7 per 91; \$8 per 104.

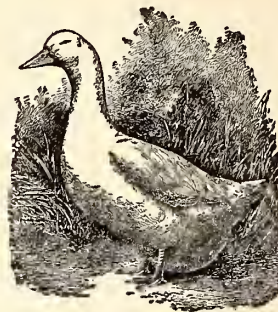
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—AT—

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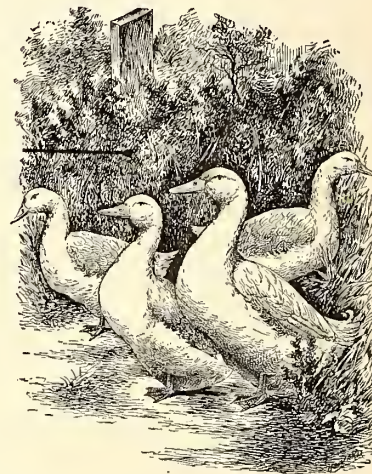


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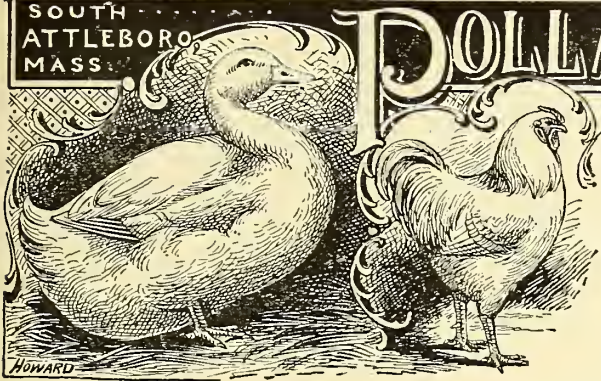
Send for my illustrated catalogue of Poultry and Pigeons. I can please you, and my prices are low for the quality I breed.

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ATTLEBORO  
MASS.

# POLLARD'S POULTRY FARM



....POLLARD'S....


**Pekin Ducks, White Wyandottes, and White Rocks,**

Are money makers. Our Pekins the past Winter won on 6 entries at Madison Square Garden, 1, 2, and 3 on both duck and drake. At Hagerstown, Md., a clean sweep of all Pekin prizes. At R. I. Poultry Show 15 regular and 8 special prizes on 16 entries, (losing 4th on old drake). At R. I. State Fair clean sweep.

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Only Duck Farm in New England advertising where premiums are won.



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**EAST INDIAN DUCKS,**  
Profitable, Beautiful, Rare.

**LIGHT BRAHMAS,**  
"CEDARVALE" Strain.

Also choice birds in BARRED PLY. ROCKS and SILVER S. HAMBURG. Fine birds for sale at all times. Just drop me a postal card, I can satisfy you or no charge. Write and be convinced. No more Pyles, White Games, nor Hamburgs for sale this year. They would take my breeders too if I'd let them.

The Excelsior Wire and Poultry Supply Co., of 28 Vesey St., New York City, is our sole agent for Aztecs and East Indian Ducks. Birds are always on exhibition at this place.

**BLACK AZTECS,**  
The Product of years of Scientific Breeding.

**GAME BANTAMS.**  
B. B. Red, Red Pyle, Silver Duckwing, White



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\$5 Prize Brooder.

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Please mention this paper.

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**Placerville, Cal.**

1892

**Rossmore Poultry Yards**

1899

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**"The Queens of All Layers"**

Importers and Breeders of the Celebrated Strain of

## Improved "Full Feathered" Dark Brahmas Exclusively.

Imported by us from the Best Yards of them to be found in England and Scotland, regardless of cost, and the only ones of this strain to be found in America to-day. Winners in all the shows including New York, Boston, Northampton, Stonelam, Malden, and Lynn. We have never failed to win all first premiums in every show in the past seven years we have bred this strain. We have the Black and White in Males, and the "Steel Gray" shade, that is Steel Gray, in Females. We can continue to sell the Same Quality of birds at as low price as any other man. In fact we defy competition. And we have the birds to prove it.

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**Ground Beef for Winter Feed.**  
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Bone Meal, Granulated Bone, Crushed and Granulated Oyster Shells and Charcoal, Limestone, Grit, Bone Mills, and Everything for the Poultry Yard For Sale at Reasonable Prices.

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**ROCKS** Buff and White.

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BROWN LEGHORN SPECIALIST,  
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Lawton's Station, N. Y., U. S. A.

Eggs for Hatching, \$2 per 13.

## NORTH SIDE POULTRY YARDS,

## SILVER AND BUFF WYANDOTTES.

Stock for sale at all times.  
No Eggs. Write your wants.

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## White Plymouth Rocks,

Lay large brown eggs.  
As good eggs as can be bought for \$1 per setting.  
Stock for sale.

**LURAY POULTRY YARDS,**  
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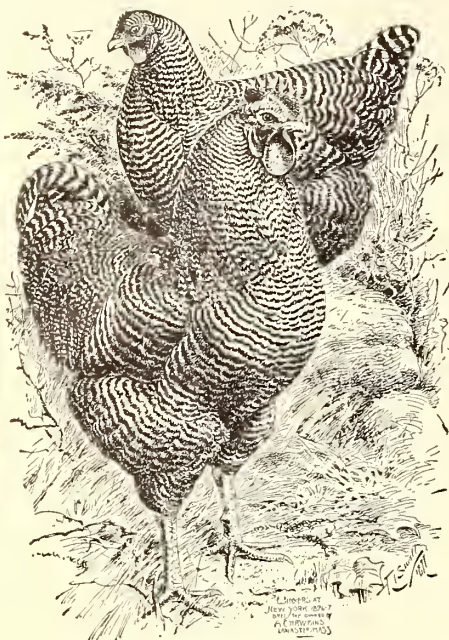
### EGGS REASONABLE FROM THOROUGHBREDS.

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| \$ .90 for 15 | From White, Buff, and B. P. Rocks,  |
| 1.75 for 30   | W., Golden, and Black Wyandottes,   |
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Also \$1.50 to \$2 for 15 eggs from Sherwoods, White Wonders, and White and Cornish Indian Games. Catalogue free.

**"The Reliable Brookside Farm," Nelscn, Pa.**





Winners at New York, 1897, from life.

# HAWKINS'

## ROYAL BLUE STRAIN

# PLYMOUTH ROCKS

BARRED, WHITE AND BUFF.

WYANDOTTES, SILVER AND WHITE.

**EGGS** FROM PRIZE MATINGS.  
1 Sitting, \$5. 3 Settings, \$10.  
2 Settings, \$8. 5 Settings, \$15.  
Per 100, \$20.00.

Have won more Prizes at the Leading Shows of America and England than all others. My matings for 1899 are the best I ever owned.

At the Great National Show, WASHINGTON, D.C., in hot competition with over 300 birds of these varieties, the best that could be found regardless of price, I won 45 Regular and Special Prizes on 39 Entries, including First Prize on Breeding-Pen in each variety, Special for Best Display in the American Class, Special for Best Exhibit of Plymouth Rocks, Sweepstakes Special for Best Cockerel in the show (Bantams excluded), and this on my First Prize Barred P. Rock Cockerel. My winning White Wyandotte cock was pronounced by the judges to be the best they had ever seen. I won twice as many first prizes as all other exhibitors of these varieties. My BUFF ROCKS, at BOSTON, 1899, in hot competition, won more first and special prizes than all others. My customers are winning all over the country. If you want the BEST, write me. Hundreds of Choice Exhibition and Breeding Birds at honest prices. Catalogue of America's finest Plymouth Rocks and Wyandottes free.

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## PRIZES BY THE MILLION

Well hardly.

But 18 First Prizes out of a possible 25 at Madison Square Garden, New York,

In the last 5 years is a pretty good starter. 63 prizes on 70 entries including \$100 cup and \$25 trophy seems like a fairy story. They are facts nevertheless. Now what do these prizes mean? Just this. No other breeder of

## ...BLACK LANGSHANS...

In America can show as great a prize record as Dr. Robinson. At New York City, 1899, he won 1st cock, 1st, 2d, and 3d hens, 2d and 4th cockerels, 1st, 2d, and 3d pullets, 1st, 3d, and 4th exhibition yards. Grand Gold Special for best Langshan, 13 prizes on 13 entries. My record on Exhibition Yards at Madison Square Garden in the last five years, viz: 1st, 3d, and 5th in 1895; 1st, 4th, and 5th in 1896; 1st, 2d, and 3d, in 1897; 1st, 2d, and 3d, in 1898; and 1st, 3d, and 4th in 1899, has probably never been equalled by a breeder of any variety at any show in America. In these 5 years my Langshans have won 6 times as many 1st prizes as any other exhibitor and nearly 3 times as many 1st prizes as all competitors combined. For great style and carriage, magnificent plumage, small, evenly serrated combs, this strain can not be excelled. Enclose stamp for finely illustrated circular giving complete prize record.

EGGS, \$5 per 13; \$9 per 26; \$12 per 39.

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"NEW YORK CHIEF."  
1st Ckl. N. Y. City, 1897.  
1st Cock N. Y. City, 1898.

Sec'y and Treas.



## DENNY'S BUFF ROCKS...

AT CHICAGO, 1899,

(The Annual meeting of the Buff Rock Club.)

Won more regular premiums than any other exhibitor, in a class of 82 birds by 14 exhibitors. Among the specials was the one for 2 best cocks, hens, cockerels, and pullets by 1 exhibitor; also special for most even colored cock. Still have some choice breeders for sale. Eggs, \$3 per 13. Orders booked now. Send for circular.

W. C. DENNY, Rochester, N. Y.

## THE "RINGLETTS" SOAR STILL HIGHER

AT NEW YORK, FEBRUARY, 1898,

## E. B. Thompson's Barred Plymouth Rocks,

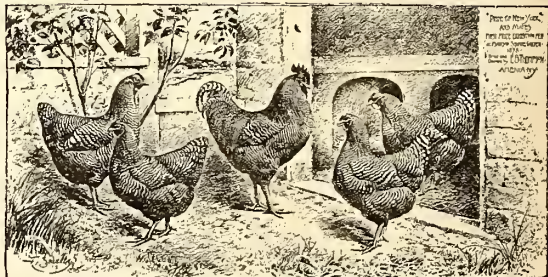
Again won all the Sweepstakes cups and Trophies, including the Superb Challenge Trophy, value \$100, for best cock, cockerel, hen, pullet, and exhibition pen. Sterling Silver Cup, value \$100, for finest exhibit. Grand Special Sweepstakes Cup, value \$100, presented by the President for best cock, cockerel, hen, and pullet, Plymouth Rocks, any variety.

My Clean Sweep of 1st, 2d, 3d, 4th, and 5th Prizes on Pullets

Has never been approached in Madison Square Garden and stands alone and unequalled. The record of both 1st and 2d Prizes on Breeding Pens is also phenomenal. At New York, 1895-6-7 my Barred Plymouth Rocks won almost 3 times as many 1st prizes as any other exhibitor, and more 1st prizes than all competitors combined.

## 400 Grand Breeding Cockerels

For sale; also elegant pullets in any number. Eggs from finest exhibition matings, one setting \$5; two settings \$9; three settings \$12. Richly illustrated catalogue on Application. Address,



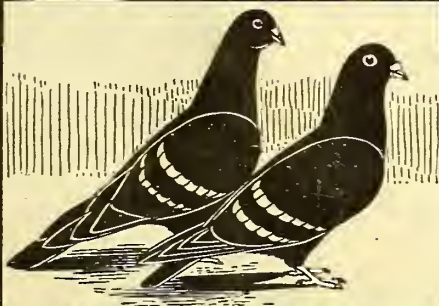
First-Prize B. Rock Pen at New York, February, 1898.

E. B. THOMPSON, Lock Box 406, Amenia, Dutchess Co., N. Y.

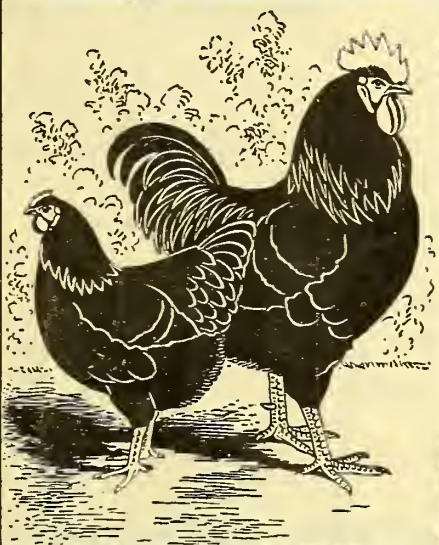


JUN 1899

# The Feather



PIGEONS



POULTRY

WASHINGTON, D. C.

Vol. IV. JUNE, 1899. No. 9.

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"Death to Lice" Ointment  
and Powder.



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New York State Cups for best cock, hen, cockerel, pullet, and pen.  
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Special for best exhibit in open class.  
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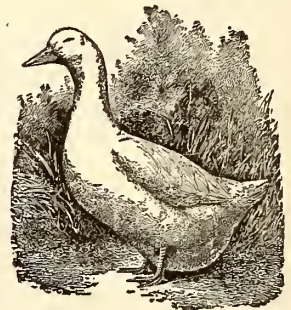
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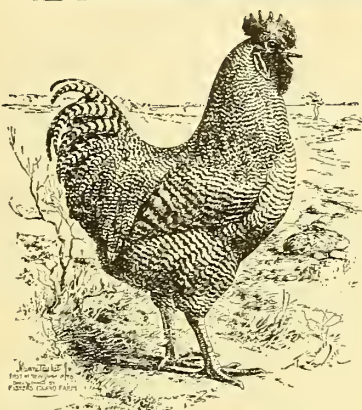


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Are the kind I raise and sell eggs from, and they are the kind that never get defeated in any show-room. You can raise some fine ones if you send at once for some eggs. My Bronze are just as good. Eggs 40 cts. each. Now is the time to order Guinea eggs and I have two varieties on two separate farms. Eggs, \$1.50 per 13. I am sending out a nice little booklet which tells where and what prizes my stock won the past season. I have 23 varieties. Send for catalogue.

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America's Leading Strain.

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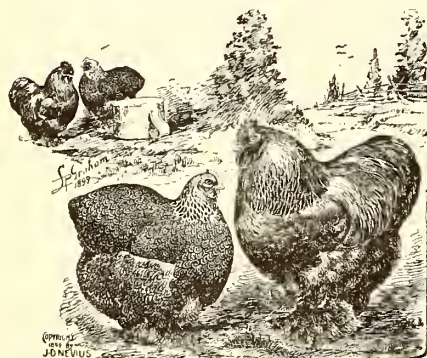
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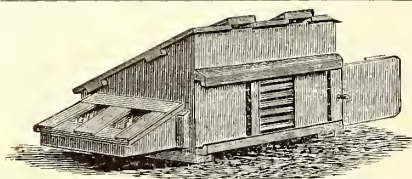
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Bred for eggs, vigor, and as near Standard as consistent with utility.

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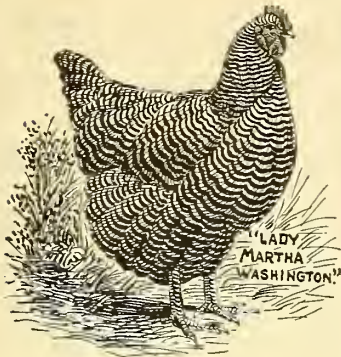
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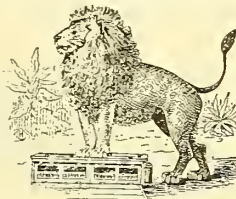
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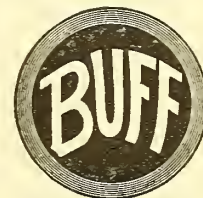
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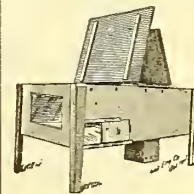
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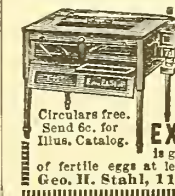
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# 8 TO 2

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THE BEST GENERAL-PURPOSE FOWL. BROWN-EGG STRAIN.

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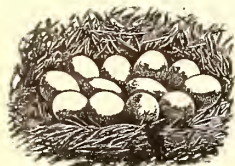
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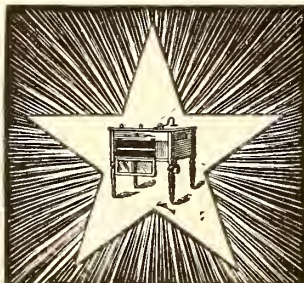
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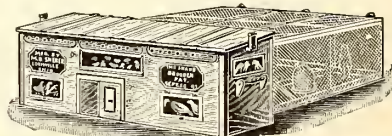


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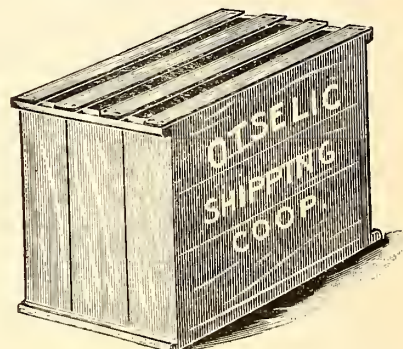
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|----------------------|-----|---------|-----------------|
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| 4 "                  | 75c | per 100 | 7 per 1000      |
| 5 "                  | 85c | per 100 | 8 per 1000      |
| 5/8 IN. IN DIAMETER. |     |         |                 |
| 2 ft. long.          | 60c | per 100 | \$5.50 per 1000 |
| 3 "                  | 70c | per 100 | 6.50 per 1000   |
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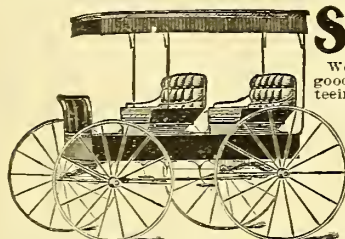
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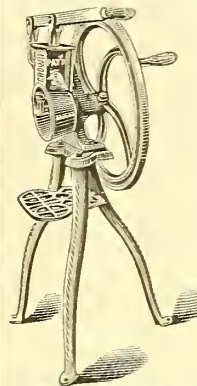
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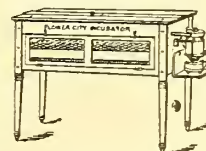
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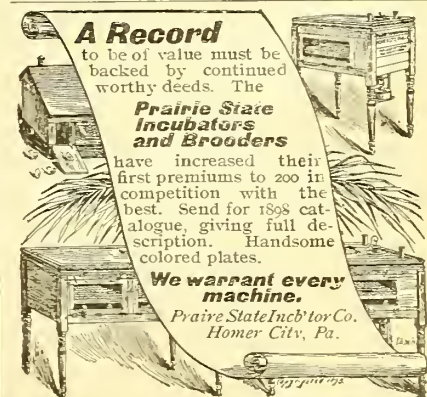
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# The Feather

A National Journal Devoted to Poultry, Pigeons, Birds, Etc.

VOL. IV. No. 9.

WASHINGTON, D. C., JUNE, 1899.

FIVE CENTS.

## HOUSE BUILDING.

**Buildings Should be Plain and Substantial—Providing Ventilation—Designs and Plans for Cheap and Expensive Houses.**

**Well-Lighted and Roomy Houses the Best Kind to Build.**

**I**N THE construction of the poultry-house be economical, avoid lavish display and ornamentation, and use methods that will be of advantage to the health and comfort of the fowls. The house should be plain, substantial, free from dampness and draughts. Sunshine should be provided for by windows in the southern exposure; light and sunshine are tonics to the fowls and will prove beneficial. Lack of sunshine is the cause of many diseases to which poultry are subject, and many cases of colds, catarrh, rheumatic affections and diarrheas are traceable to dark houses.

During warm weather provide ample shade in the runs for shelter. Trees and bushes are natural shade, but when trees are not accessible, small sheds may be attached to the houses, or large boxes scattered promiscuously will give shade and shelter from the storms. Poultry like fresh air, outdoor exercise, and shady nooks to scratch in; it is akin to their nature and the provision of shade and outdoor shelter will enable them to enjoy these things to their own satisfaction and benefit.

Ventilation is needed. That is, it should be provided in a way to be of service to the fowls, and not as some use it. Poor ventilation, or too much ventilation, has caused many deaths. Avoid the use of ventilators which cause a draught on the bird while on the roost. If ventilation must be used, then a pipe at the end of the house farthest from the roosting-place is best. This pipe should be about 12 inches from the floor and should have an exit in the roof. Do not use overhead ventilation of windows at the sides of the house as a means for providing fresh air; these

methods will cause draughts and can not fail to play havoc among the flock.

A good method for providing ventilation, and it is, perhaps, the safest and best, is to build the house to accommodate only the number of fowls to be kept without crowding. If the house is well lighted it will need no other ventilation than is naturally provided. Build a house to suit the flock, or keep a flock to suit the house. No other ventilation will then be needed other than the pure air which is in the house.

Build the house in a dry, well-drained location, free from dampness. Have the floors raised from the ground and cover them with dry earth or sand. Keep clean and have everything in a neat, trim state. Do not be negligent in the care of the house. Be active and watchful and attentive to duty.

### A CHEAP HOUSE.

The house is large enough for about twenty-five hens. It is 16 feet long and 13 feet wide; 11 feet high in front and 6 in the back. The roosts are in the northeast corner, placed over a platform, which is 6 feet long and 3 feet wide. The platform is placed on 2x4 poles in front, which are sharpened and driven into the ground so as to be 34 inches high. This leaves room in the west end to set a barrel under to scrape the droppings into. The roosts are set about 8 inches from

the edges of the platform, and there are two running lengthwise, which gives room for twenty-five hens. The north and east edge of the platform is nailed into cleats. The roosts are 16 inches high. The nests are built by laying a box 8 feet long on stones near the

ground, the box being divided into four compartments each 12 inches deep. The box lays on the side, and there is a narrow board nailed across the front near the ground, and has doors of laths to fill space above. This is for hens with chicks. The chicks can run out into the south room, which is 4 feet wide and 8 feet long. Above this box (the top to serve for bottom of one row of nests) is built a double row of nests, six on each side, with a sliding partition between each nest. There is a standard set up at center of each end of box; across the top of these is a piece of 2x4 timber nailed the entire length of the box. Above this to the floor

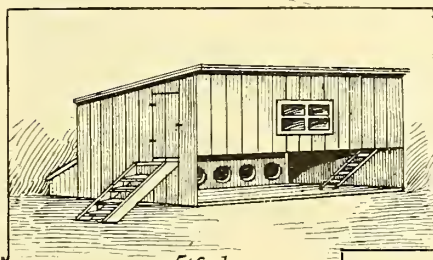


FIG. 1.

A GOOD HOUSE.

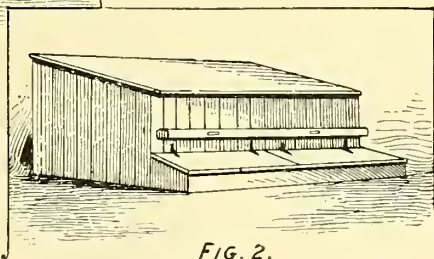
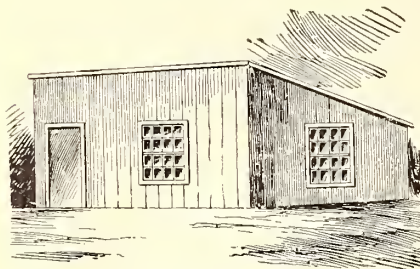


FIG. 2.





A CHEAP HOUSE.

the hens can enter the nests. The covers of the nests are half-inch boards, which are put on slanting, resting on the edge of the board in front, so there is no chance for the hens to roost on and foul the nests.

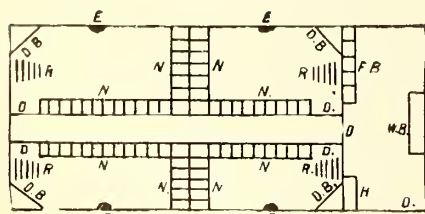
The feed-box is 6 feet long, 9 inches high in front, and 14 inches back, with slanting top like the nests, with cover 4 inches wide on hinges. There are slats both in front and back, so the hens can eat from either side. This box is set about half its width under the north side of the nests, so there is room for the hens on both sides.

A DOUBLE HOUSE.

This house is designed to accommodate about thirty fowls, but can be made on the same plan to any size required by the builder. The loft is an addition which will meet the requirements of all who wish to keep pigeons to a good advantage without occupying the ground space of the fowls. This addition can be built on any shed or small lot, and the lower story can be utilized in many ways to suit the builder, if he does not intend to keep fowls.

The plans may be varied in many ways, but for a combined poultry-house and pigeon-loft, every precaution has been taken to make it complete in all particulars.

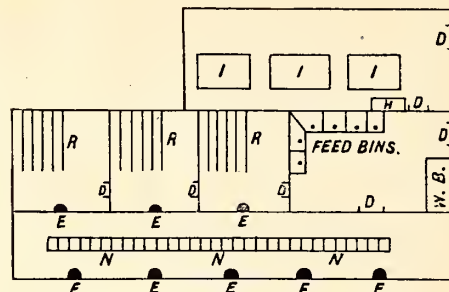
The size of the ground plans are 10x12 feet for the building, and the flight is 5x10 feet. This makes 10x17 feet from out to out; the height is 14 feet to the square, and 5 feet more to the highest point. The ceiling in the poultry-house is 7 feet high. The foundation is laid upon cedar posts, 4½ feet long, with 1 foot above the surface. The framework is of 4x4 stuff entirely, the braces of 2x3 scantlings; the joists are of 2x6. The framework also is of 2x3 scantlings, with



GROUND PLAN.

overhead there is a wire partition. On each side of the 2x4 timber there is a narrow board nailed on to fasten the hinges of covers. In front of the nest there is a board 12 inches wide cut so that

dows, and two doors, the sash and all doors open on the outside. The shingled roof and flagstaff complete the ornamentation of the exterior, except the flight, which is covered which one-inch mesh.



GROUND PLAN OF WELL-ARRANGED HOUSE.

A WELL-ARRANGED HOUSE.

This building shows a structure somewhat different in its arrangement from a great many buildings for poultry. It is practically three separate buildings in one. The first is entirely for hens; that is, nothing but nesting-places are in this part. It is 30 feet long by 10 feet wide, and 7 feet high, making ample accommodations for from forty to sixty hens. Opening from the yard it permits them the freedom of the yard when they desire to go out into it. The second part of the structure is given entirely to feeding-quarters and

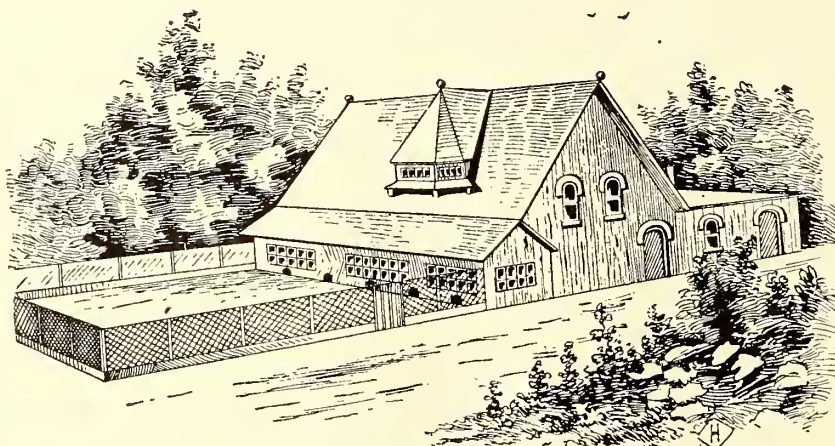
roosting-places. The entrance from the roosting-rooms from the laying-quarters is shown in figure, the ground plan indicated by the letter E. This enables you to divide your flock at night, avoiding too much crowding on the roosts, and the doors leading to each roosting section can be thrown open, and they can either pass through there or go directly from the laying-house through the door

at the right end of the laying-quarters. The doors are indicated by letter D, the roosts by R, and in the feeding-quarters the feed-bin and work-bench occupy a part of the room.

The building is 30 feet long by 18 feet wide by 8 feet high. A stairs or ladder leads up to a large room in which pigeons may be kept. Two windows on the front give light to the lower floor, and the mansard cupola on the roof afford light to the upper room. The last building is arranged for incubators, I, and the brooders as well as the heater to cook feed, and keep the place warm in cold weather. This part is convenient and necessary and should always occupy a separate part of the poultry-house. This section is just 15 by 18 feet, and is 7 feet high, with one window and two doors, one leading to the feeding quarters, and the others to the outside.

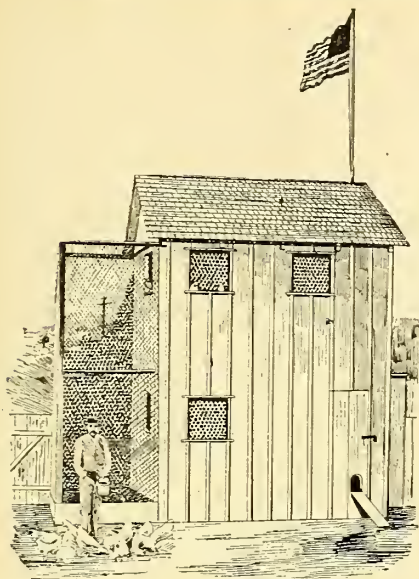
A ROOMY HOUSE.

Although there are many buildings that can be made suitable for keeping a flock of fowls, yet some prefer to see a plan or two, in order that a proper selection as regards arrangements be afforded when they contem-



A WELL-ARRANGED HOUSE.





A DOUBLE HOUSE.

withstand the winter when it comes. Many farmers through the northern states give very little care to their fowls in the warm weather; they seem to do well, costing comparatively nothing to feed them, all being profitable to their owners.

The illustration shows a very cosy laying-house to accommodate from 100 to 200 hens. It is built plainly, consequently cheaply, according, however, as comfortable quarters as houses costing far more. It is 90 feet long, 44 feet wide, and 15 feet high. This is a good size and suitable for a flock of layers, yet you may change the proportions to suit your own ideas to accommodate just the number of fowls you desire to keep about your place. The ground plan shows the interior arrangement. A hallway separates the four large pens, each of which is 35x20 feet. The letter D indicates all doors in and about the building, N the nest-boxes, which will be noticed have been amply supplied in each pen. The nests are fastened in sets of three by hooks, and can be removed quickly and cleaned without any trouble. R, the roosts, each pen being well supplied with low, comfortable roosts. D B, the dust-box; F B, is the feed-bin; a heater, H, does the work of cooking as well as heating. A work-bench, W B, affords facilities for doing odd jobs of repairing, which are so often needed in such buildings. This main room is, or should be connected with all poultry-houses for the convenience of the person who looks after the flock.

A GOOD HOUSE.

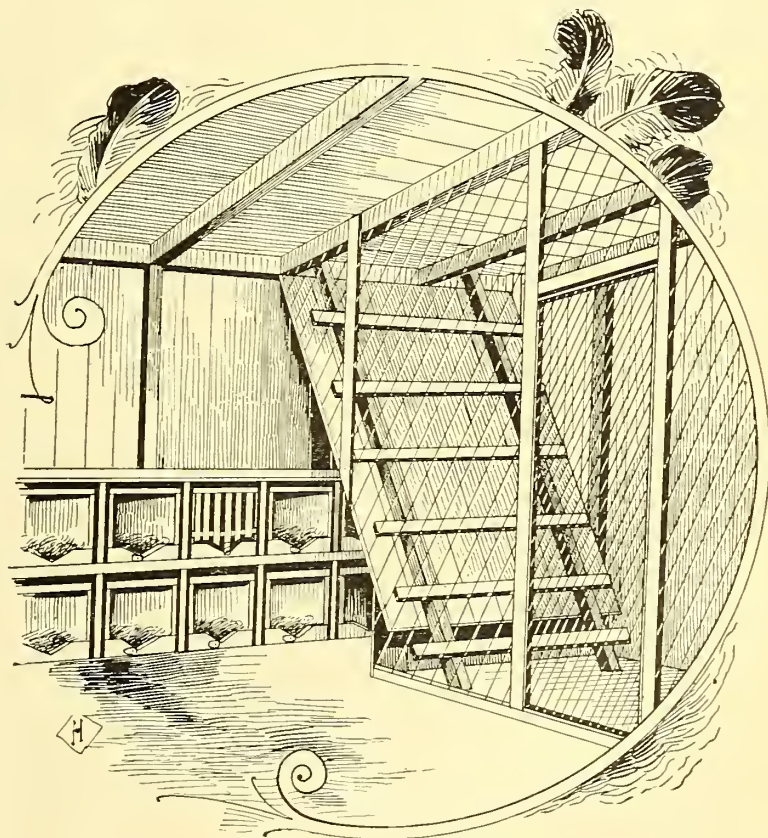
This house is 8 feet high in front and 6 feet high in the rear. It is 8x12 feet and the roof is covered with tar paper. The first floor is of boards, covered with leaves or cut straw. The nests are in the rear, a box being prepared for that purpose, so as to allow the hens all the floor room possible. The small step or board shown at the right, allows the hens to ascend to the second floor for roosting, a trap door being placed in the second floor to allow them access. This is closed at night. The door for the upper room, with steps, is shown at the left. The

entrances to the nests are plainly seen at the rear of the house, to the left.

The rear view shows the nest-boxes and the entrances to them. This arrangement permits the collection of eggs without entering the house. On the upper floor is shown a drawer, under the roosts; the droppings fall from the roosts into this drawer and are removed by emptying the drawer, which can be taken out without entering the building. This plan necessitates going into the upper apartment but very little, and the lower floor affords ample shelter from storms and allows plenty of air and light to enter the building. The upper floor is three feet from the ground, and is simply a roosting-place, the hens occupying the lower floor during the day.—From "THE AMERICAN FANCIER'S POULTRY BOOK."

### LANGSHANS.

The general favor in which this breed is held is well deserved. Among breeders and fanciers alike it meets with approval as an all-purpose bird, and one that is profitable to the keeper. The Langshans are gentle in disposition, and bear confinement very well. They are hardy and remarkably free from disease, and the chicks grow very rapidly. They are more active than the other Asiatics, and the pullets commence laying at an early age, and are excellent winter layers. They lay a brown-colored egg of good size and a delicious, rich flavor. They are classed among the largest breeds, the cocks weighing ten and the hens seven



INTERIOR VIEW OF LOWER ROOM OF DOUBLE HOUSE.

pounds. Their fine form and stately carriage meet with admiration from all, and as a table fowl there are few better, the meat being tender, with a splendid flavor.



## FEEDING MASH TO POULTRY.

Ground Feed is More Easily and Quickly Digested Than Whole Grain—The Prices of Feeding Stuffs—The Composition of Foods—Recipe for a Good Mash.

The Best Time for Feeding Mash.

BY WM. P. GRAY.

**W**ITHOUT a doubt fully eighty per cent of the successful poultrymen of to-day feed a mash to their fowls. It is only within the last few years that this has been the case. Ten years ago the majority of poultrymen were content to feed nothing but whole grain, usually corn, once or twice a day; but, with improved methods of feeding has come also an improvement in the feed.

Ground feed is more easily and quickly digested than whole grain, and usually the ground feed is the cheaper of the two. Many poultrymen say that they can not get any profit from their poultry by feeding wheat, at the present price of that grain. Then, why not substitute wheat bran, made into a mash, for a large part of the expensive whole grain? I can buy 130 pounds of bran for what 100 pounds of wheat would cost me, to-day. Second-grade wheat, costing 65 cents per bushel of 56 pounds, and bran 90 cents per hundredweight. The 130 pounds of bran will make a bulk of about 170 quarts, or a little more, while the 100 pounds of wheat will make but 57 quarts. Then, for the same amount of money, I can buy three times the amount of bran, in bulk, as I could of wheat.

Of course, we must not conclude from the foregoing statement that the bran will furnish three times the amount of nutrition as the wheat, for to figure the feeding value we must consider the weight, chemical composition, and the digestibility of each feed. To do this let us consult Farmers' Bulletin No. 22, of the U. S. Department of Agriculture. Now we find that 100 pounds of wheat contains 10.23 pounds of digestible protein, 69.21 pounds of digestible carbohydrates, and 1.68 pounds of digestible fat. From the analysis of bran we figure the digestible ingredients of 130 pounds to be: 15.6 pounds of protein, 53.6 pounds of carbohydrates, and 3.73 pounds of fat. So in the bran we get fifty per cent more digestible protein, or flesh-forming material, than we do in whole wheat, for the same amount of money. By getting the proportion between the protein and the heat-producing ingredients, carbohydrates, and fat, we find the nutritive ratio of wheat to be one to seven while that of the bran is one to four. Now those who have made a study of the scientific feeding of poultry have found that hens lay best when receiving a ration that has a nutritive value of one to four. So by substituting bran for part of the wheat, we lessen the amount of a feed with a wide ratio and add a feed that has just the nutritive ratio that we desire. I make this comparison between wheat and bran for the benefit of those who are not in the habit of feeding soft feed to their poultry, and not to discourage any one from using wheat, for I consider it the best whole grain we can feed for eggs and growth. The grain mixture that my hens are getting now consists of two bags (224 pounds) wheat, one bag (70 pounds) oats, and 100 pounds

cracked corn. During the winter I substituted buckwheat for part of the wheat.

Some may claim that bran is so bulky that it would require more than a hen could get into her crop to attain any results from feeding it. But do we not feed a mash so as to give our birds a bulky feed? In its natural state a fowl gets its food mostly in a bulky form. Those who raise large numbers of ducks for the market, claim that they get the quickest growth by never allowing the ducklings to have any whole grain, their main food being a mash of bran, cornmeal, and meat, either in the form of meat scrap or animal meal.

We have considered the principal feed that should go to make up a mash, but we must have something else, for a fowl enjoys variety as well as a human being does. Wheat middlings is a ground feed that many use in making a mash. I have found that a ground-feed mixture that contains any quantity of middlings mixes up very sticky, and for this reason the fowls will not eat it as readily as a crumbly feed, and as middlings are so near like bran in their composition, I seldom use them.

Cornmeal is used in large quantities by some, but as it is very fattening and my hens get corn in their grain feed, I do not use the meal except in very cold weather. Buckwheat middlings are very rich in protein, when compared to the other ground feeds, but this feed must be fed sparingly or it will affect the bowels. Like wheat middlings this feed will tend to make the mash sticky. Cottonseed meal and linseed meal are the richest in protein of all the ground products, but, with these the same as with buckwheat middlings, they have to be fed in small quantities or they will cause looseness of the bowels.

A good ground-feed mixture for a mash can be made of the following: Five quarts of bran, two quarts of buckwheat middlings, one quart each of cottonseed meal, linseed meal, and animal meal. These can be mixed by pouring small quantities at a time into a barrel. In this way one can have the mixture ready to use at any time. In the winter a good mash should contain some green food, such as cooked vegetables or cut clover hay. I have added from twenty-five to thirty-five per cent of Pioneer Clover Meal to my mash the past few months and find it to be an excellent egg producer.

Kitchen scraps should also go into the mash. And where a large number of fowls are kept it is well to add ten per cent beef scrap or animal meal to the mash, especially in cold weather, as this meat food takes the place of the bugs and worms a fowl gets when allowed free range. Skim milk is an excellent feed for poultry, and when it can be had it should be put in the mash. Do not neglect to season the mash with a little salt and pepper, the same as you would your own food. A little charcoal should also be added to the mash as it helps to regulate the bowels. Granulated charcoal is preferable to that which is powdered.

Condition powders may be used once in a while, but do not give any to healthy fowls that you wish to breed from. The progeny of birds that need a stimulant to make them lay will rarely develop into good layers. The mash can be made up either by scalding or cooking; as a usual thing it is more convenient to scald it, but when a stove is handy it is well to let the mash cook, but do not feed it hot as some advocate. Hot feed is sure to take the color out of a bird's beak. If fed warm the feed will do them as much good. Never feed a sloppy mash. Pigs may enjoy sloppy food, but hens will eat very little of it. A mash for hens should be moist and crumbly. After cooking



add some extra ground-feed mixture until the mash becomes crumbly. A mash for ducks should be more moist than one for hens, but must not be sloppy.

The time to feed a mash is something on which there are numerous opinions. The large majority of poultrymen claim that a hen comes off the perch with an empty crop and wants something to warm her up, and also a food that can be digested quickly, so they feed a warm mash in the morning. A few feed the mash at night, as they have found that a hen that gets her crop full of mash in the morning will want to sit on the perch until noon. Some have objected to feeding mash at night, for they say that soft food will pass out of the crop before morning and the hen will need more feed before daylight, so they feed their mash at noon and the grain morning and night. For my part, I am decidedly in favor of feeding the mash at night. Until very lately I fed the mash in the morning. I cooked the feed in the evening, and in the morning I tried to get to the henhouse before the hens were off the perch. Nine times out of ten I found them around the feed-trough waiting for me. I did not dare to feed them more than a taste, for I had found by experience that if I gave them even one-half of what they would eat, they would stand on one leg for four or five hours after.

Since I have changed my time of feeding the mash, I give my hens all they will eat up clean at night, and I find I can feed from two to three times as much mash as formerly, so I can now feed enough to get results and at the same time keep my birds active through the day. They do not wait at the feed-trough for their breakfast now, for after dark I throw a little grain into the litter of the scratching-pen, and those hens are scratching for that grain as soon as it is light in the morning. More grain is fed during the day, and by night the birds are ready to eat a good, big feed of mash. As to the idea of the hen's crop being empty before morning, I think that as the mash only passes from the crop gradually she will eat enough at night to last until morning. Now, if she had a full crop of corn, would it not take considerably more energy to digest hard grain than it would for the mash? Accordingly the hen would need enough more feed to produce that much extra energy when feeding whole grain.

### BOOTED WHITE BANTAMS.

Booted White Bantams are distinguished, as their name implies, by heavily feathered, or booted, shanks. They have small heads and medium-sized single combs. The hackles are long and partly cover the shoulders; the wings are large and slightly drooping, the tail is upright, with long sickles and abundant coverts; thighs, medium in length, and covered with long, stiff feathers, or vulture hocks, which nearly reach the ground; toes and shanks, yellow. The plumage is pure white.

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The Diseases of Poultry, by Dr. Salmon, is unquestionably the most useful book for poultrymen ever issued. You can not afford to be without it one day. Order now, price 50 cents postpaid. GEORGE E. HOWARD & CO., Publishers, S. W. Cor. 8th and H Sts. N. W., Washington, D. C.

Advertising rates in THE FEATHER are very low, as they were fixed at a time when the circulation was only about one-half what it is at present. There is no cheaper advertising to-day, all things considered, than is offered by this publication.

## POULTRY EXPERIMENTS.—II.

### Animal Meal v. Cut Bone for Egg Production—Foods Consumed—Average Weight of Fowls—Eggs per Month.

#### Practical Experiments of Value to Poultrymen.

**I**N this experiment there were nineteen pullets in each house when the experiment began. Those in the animal-meal house weighed 101.5 pounds, and had laid, November 8 to December 12, 82 eggs. The pullets in the cut-bone coop weighed 101.25 pounds, and had laid 41 eggs.

In the morning mash of one lot one part animal meal to five parts total dry materials was used; in the mash of the other lot, the same proportion of fresh-cut bone was mixed. The large, flat bones, comparatively free from meat or fat, were used.

In the animal-meal coop the health of the birds was good, but one fowl being out of condition in any way. She became sick about April 1, and was killed, as she seemed to be growing gradually worse, on April 10. The nature of the trouble was unknown. Almost from the first, bowel troubles were not uncommon in the cut-bone coop. Two fowls died (December 23 and January 11) after short illness. On April 11 one hen was found with a disjointed leg, and she was killed. The animal-meal coop laid three soft-shelled eggs; the other, two.

The bone fed amounted to only .27 ounce per hen daily. One-half ounce and over is the usual recommendation by writers upon the subject. We find it impossible to feed so largely without serious bowel trouble.

#### Foods Consumed, Animal Meal v. Cut Bone.

| KINDS OF FOOD.       | Animal Meal. |     | Cut Bone. |     |
|----------------------|--------------|-----|-----------|-----|
|                      | Lbs.         | Oz. | Lbs.      | Oz. |
| Wheat.....           | 256          | 0   | 262       | 0   |
| Oats.....            | 143          | 0   | 145       | 0   |
| Bran.....            | 44           | 8   | 39        | 0   |
| Wheat middlings..... | 44           | 8   | 39        | 0   |
| Gluten feed.....     | 44           | 8   | —         | —   |
| Gluten meal.....     | —            | —   | 39        | 0   |
| Animal meal.....     | 44           | 8   | —         | —   |
| Cut bone.....        | —            | —   | 40        | 0   |
| Clover rowen.....    | 44           | 8   | 39        | 0   |
| Cabbage.....         | 19           | 3   | 18        | 8   |

#### Average Weights of the Fowls (Pounds).

| DATES.           | Animal Meal. | Cut Bone. |
|------------------|--------------|-----------|
| December 12..... | 5.34         | 5.38      |
| January 31.....  | 5.64         | 5.66      |
| February 25..... | 5.66         | 5.88      |
| March 30.....    | 5.09         | 5.27      |
| April 30.....    | 5.06         | 5.53      |

#### Eggs per Month (Number).

| MONTHS.       | Animal Meal. | Cut Bone. |
|---------------|--------------|-----------|
| December..... | 63           | 57        |
| January.....  | 92           | 83        |
| February..... | 184          | 120       |
| March.....    | 263          | 259       |
| April.....    | 210          | 209       |
| Totals.....   | 812          | 728       |



*Animal Meal v. Cut Bone for Egg-production.*

|                                               | Animal Meal. | Cut Bone. |
|-----------------------------------------------|--------------|-----------|
| Total number of eggs.....                     | 812          | 728       |
| Hen days.....                                 | 2,561        | 2,331     |
| Gross cost of foods.....                      | \$8.45       | \$8.29    |
| Cost per egg.....                             | \$0.0104     | \$0.0114  |
| Cost per hen day.....                         | \$0.0033     | \$0.0035  |
| Total weight of eggs (pounds).....            | 100.5        | 88.7      |
| Average weight per egg (ounces).....          | 1.98         | 1.95      |
| Eggs per hen day.....                         | .32          | .31       |
| Dry matter consumed per hen day (pounds)..... | .22          | .23       |
| Dry matter to produce 1 egg (pounds).....     | .695         | .739      |
| Nutritive ratio.....                          | 1:4.6        | 1:4.7     |
| Sitters.....                                  | 22           | 13        |

A test of the eggs both raw and boiled was made by an expert, who found the animal-meal eggs inferior, in color and flavor, to the others.

*Conclusion.*

In conclusion, then, I may quote the closing summary of results made in my report upon a similar experiment last year. "The advantage in this trial lies, then, clearly with the animal meal as a food for egg-production. It has given more eggs of greater average weight and at considerably less cost than the bone; and it is, moreover, a more convenient food to use, as well as safer." In one respect only is the animal meal apparently inferior to the bone this year, viz., the fowls getting it weigh less at the close of the experiment than the others. This loss in weight is, however, far more than covered by the greater value of eggs produced.

We have now carried through five experiments, comparing these two feeds. Two have given results slightly favorable to the bone in number of eggs; one a similar result in favor of the animal meal; and two—the two last, which have been the most perfectly carried out—have been most decisively favorable to the animal meal. The latter has also been found the safer food. *The greatly preponderating weight of the evidence afforded by these experiments, which have been most carefully conducted, is, therefore, in favor of the animal meal.*—Report of the Massachusetts Agricultural College.

**NEGLIGENCE IN BREEDING.**

One matter already mentioned needs to be strongly emphasized. This is the frequent neglect of the fundamental principles of breeding in the management of poultry. Carelessness in this respect has doubtless paved the way for destructive diseases, like roup, blackhead, etc., to work their disastrous results. The practical poultry breeder of to-day must seek to know, as thoroughly as possible, the workings of heredity, atavism, prepotency, variation, and correlation in their relations to the development of fowls.

Further, the requisites in successful breeding of poultry may be summarized as follows:

*First.* Health and good constitution.

*Second.* Good pedigree (a long line of good ancestors.)

*Third.* Good conformation and color.

*Fourth.* Good temper and docile disposition.

*Fifth.* Favorable environment and management.

Not to dwell at length on this subject, let us consider briefly one or two illustrations of certain lines of action. A study of the turkey-raising industry of Rhode Island, in connection with the development of that dread disease, the "blackhead," brings out the fact that it

has been quite a common practice in some sections where turkeys were raised in large numbers to sell all of the early-hatched and best-developed birds for the Thanksgiving trade. Later, when the question of raising the next year's supply came up, such birds as were "left over" from the previous autumn were used to breed from. These were usually closely related, and often the male used to head the flock was a late-hatched, inferior bird. After this plan had been followed a few years the breeding stock began to "run out." Size, constitution, vigor, and health all became reduced. The death rate increased, and then came the blackhead disease to complete the ruin of the weakened flocks. Spasmodic attempts to turn the tide, by purchasing vigorous, healthy males from a distance to breed with the debilitated flocks, have amounted to little. Moreover, the turkey-breeding grounds of Rhode Island have apparently become thoroughly infected with the protozoon, which causes the disease, in some stage or other of its life cycle. Good constitution and health, the first requisites in successful poultry breeding, have been neglected, while the principles of heredity and variation have kept working on, but, unfortunately, not in the direction of plump birds or of plump pocket-books for Thanksgiving time in city or country. More than two centuries ago farmers had developed stock breeding to such an extent that they recognized two closely-related rules concisely expressed in the axioms "Like begets like," and "Breed from the best." Those turkey breeders who have neglected these rules are, unfortunately, several centuries behind these wise old stockmen.

Another point is worth mentioning. It is a very prevalent belief among farmers who raise common fowls that "fresh blood," in the form of a male, from the yard of some other poultryman, should every year be introduced to keep up the vigor of the flock. Where careless breeding is the rule this is sometimes necessary to keep the flock in existence, but if, as is often the case, the new bird is chosen each time from a different flock, and perhaps from a different breed, then the result may possibly be increased vigor, and not much else. In following this course the poultry breeder disregards the second requisite—good pedigree (a long line of good ancestors)—and breaks the power of prepotency, which is increased immeasurably by judicious "inbreeding," and particularly by "line breeding," by means of which some of our wise Rhode Island poultrymen have systematically developed in their birds marvelous quality without neglecting the essential vigor and strength of constitution.

The fanciers delight in the development of color, and in this line wonderful results have been attained. There is one thing that needs emphasizing, and that is, if permanently-valuable results in color of plumage are to be secured and maintained, one must work along with nature, and not against her. If our experimentation is to be of any real or permanent value, this idea must be kept in mind. The breeder may leave the principle of correlation out of calculation, but the birds will not. The whole bird and all its parts must be considered, hence a standard of a breed should give proper weight to all related characteristics. A false standard, or a lack of good judgment, may temporarily give to some "fancy fad" in color undue importance and cause a breeder to neglect conformation, size, vigor, and breeding quality. Some breeders of Barred Plymouth Rocks in their inordinate desire for "bar-ring to the skin" are securing their object in the under color of the plumage, but with the accompaniment of a smoky outer plumage and numerous black feathers



and in some cases loss of size and conformation. Does it pay to ruin a good breed, or even its surface color, for the sake of extending the barring to the fluffy, hidden parts of the feathers? Is enough gained by the practice of "double mating," so-called, to pay for the trouble? If there are Plymouth Rock breeders who are sufficiently interested in this matter to co-operate in an experiment to determine what can be done in developing the Barred Rocks without double matings, this Station would like to hear from them.

Again, what will be the result of breeding the black out of the tails of the buff varieties? Will it not be a faded, characterless, yellow body color, with loss of vigor as well as beauty? And then there is the rage for the "chalky white" in the white breeds, which can be secured, but is there sufficient gain to warrant the breeder's keeping his fowls out of the sunshine, which, although it develops the yellow surface tinge on the plumage of these birds, helps their health, increases their vigor, and is destructive to the germs of tuberculosis and other diseases?

It is in the requisite last named in the list, the favorable environment and management, that the breeder has the greatest opportunity for influencing the development of his fowls. Heredity is in these times coming to be considered by some biologists as a less important factor than environment in developing the characters of animals. When more of our poultrymen have come to be strongly grounded in the principles of breeding, probably the most helpful investigation and experimentation which can be undertaken will be in relation to some of the phases of environment. Location, food, shelter, and all the conditions that surround the life of the bird, have their influence.

One point further needs special emphasis here. The birds have lungs for the purpose of breathing in the air to gain its oxygen. These lungs in their size, their coatings, and their rapidity of respiration, are adapted to an atmosphere of pure air containing in its bulk about twenty-one parts of oxygen to seventy-nine parts of nitrogen. This is essentially the composition of common pure air. If these proportions are materially changed, or if other gases are introduced, disorder and usually disease results.

Pure air being essential to the healthy life of poultry, it becomes necessary to provide some efficient means of supplying the same constantly to the fowls. In attempting to ameliorate the conditions of our severe climate by providing shelter for the fowls, we must not cut off the supply of oxygen, or allow it to be supplanted by ammonia, carbonic acid, or other useless or noxious gases arising from the fowls, their excrement or surroundings. In this line we have during the past year undertaken experimentation in brooding having for its definite object the securing "without injurious draughts, of a continuous and sufficient supply of fresh, pure air, delivered to the chickens throughout the day and night at a constant and suitable temperature." Through the kind efforts of Mr. Mark Dean, engineer, of Boston, Mass., a gravity apparatus, designed by himself at our request, was installed in one of the brooder-houses of our poultry-plant. The plan includes the taking of fresh air from outside the building, conducting it to a hot-water radiator, where, passing between the hot pipes, it is warmed, and then raises an automatic mixing damper to the top of the brooder-box. A thermostat, placed in the conduit which carries the air to the brooder-box, connected with the mixing damper, being set for a certain temperature, causes the damper to close more or less and let in such an amount of warm and cold air as when mixed will

give the right temperature. The fresh, pure, moving air of suitable temperature is constantly being supplied to the top of the brooder-box, and sifts down through a cloth diaphragm into a chamber containing the chickens, thence passing out of the box in front where the chicks may at will pass in or out.

The preliminary tests of this apparatus indicate that we are on the right track. After further and most thorough testing of this and several other plans of heating and ventilating brooders, a complete and descriptive report of the results will be published.

Enough has now been written, it is hoped, to indicate that poultry culture to succeed must be conducted along definite lines, based upon the laws of nature and of life, and that the poultryman should have as complete an understanding as possible of these laws. In order that this Station may be truly helpful our work must also have the same basis. That there may be no mistake as to the object of this statement of the situation, we would say in closing that it is not alone the fancier, but likewise the practical poultry keeper, who must seek to become well grounded in the principles and natural laws involved in the breeding and keeping of poultry. Both the utility and the beauty of fowls are developed most successfully by the poultryman who best understands his birds, is most familiar with the factors to be used, and studies most closely the relations of cause and effect. This statement applies to the practical farmer and the poultry keeper who seeks the most profitable results in eggs and dressed fowls for market. Neglect of first principles will defeat his object. With this idea in view, we invite the hearty co-operation of every poultryman in the State, or out of it, for that matter, in the development of both our experimental and educational work for the advancement of poultry culture.—*Report of R. I. Agricultural Experiment Station.*

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## OYSTER SHELLS AND GRIT.

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Grit in some form is essential to ducks and should be kept before them at all times. Many overlook this fact and do not seem to understand that it is of as much value to them as it is to chickens. The sand used in the mashers tends to supply a certain amount of grinding material or grit to them, but does not fully satisfy them for digesting their food. On a farm where more than ten thousand birds are raised annually, and where disease is practically unknown, it was noted that in every pen there was a box of grit and a box of crushed oyster shells. This raiser states that he considers grit and oyster shells an absolute necessity for ducks, and he attributes the healthy appearance of his stock to it. His birds eat it freely and the supply is never allowed to run out.

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## WHEN YOU COMPARE.

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When you compare the Diseases of Poultry by Dr. Salmon with other books on that subject you will admit that none approach it in thoroughness, in illustrations, or in clearness. And yet we sell it for only 50 cents postpaid. GEORGE E. HOWARD & Co., Publishers, S. W. Cor. 8th and H Sts. N. W., Washington, D. C.



# The Feather, Washington, D. C.

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JUNE, 1899.

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There is still time to make contracts for the coming business season at current rates. Remember that the circulation of THE FEATHER was more than doubled during the last year and that by renewing contract before July first you get the advantage of this without increased expense. After this month, the new rates go into effect, and while we still give more advertising for the money than can be obtained anywhere else, it is to the advantage of all to save the advance if this can be conveniently done. It is not too early to bring your business to the attention of buyers. The July and August numbers of THE FEATHER will have a large circulation and will bring good business to the advertiser.

**It Pays to be Watchful.** There is no branch of agricultural pursuits where constant watchfulness yields larger returns than in the poultry industry. Now that the young stock is growing, it should receive the most careful attention. Feeding should be such as to push the birds forward, and develop their bone and muscle, without overworking the digestive organs and destroying the appetite. Feed regularly, and never more than will be eaten. The skill of the feeder is shown by his ability to feed large rations and always have his birds hungry when feeding time comes. There is an old German adage quoted by Professor Henry that "The eye of the master fattens his cattle." This is as true of birds as of cattle. The master's eye should see that the feeding is properly done.

From all parts of the country come the same reports of prosperity and cheerfulness in the poultry industry. The past season has certainly been one to be long remembered. Our advertisers write of the remarkable returns which they have received from their investments, and altogether the situation appears to be one for congratulations. There never has been a time in this country when the poultry business promised as much for both small and large operators as at present. Our advice to all is—take advantage of this opportunity and make your profits while they are in sight. We would not reduce breeding stock too much, but the youngsters should be hurried forward and put upon the market early.

**Business has been Good.** country come the same reports of prosperity and cheerfulness in the poultry industry. The past season has certainly been one to be long remembered. Our advertisers write of the remarkable returns which they have received from their investments, and altogether the situation appears to be one for congratulations. There never has been a time in this country when the poultry business promised as much for both small and large operators as at present. Our advice to all is—take advantage of this opportunity and make your profits while they are in sight. We would not reduce breeding stock too much, but the youngsters should be hurried forward and put upon the market early.

We regret that owing to an unexpected and unavoidable delay in the press department Dr. SALMON'S book on Diseases of Poultry is only now ready for distribution. We felt sure that it would be off the press by May 15, when we announced it as ready in the May FEATHER. It is an elegant and indispensable book and we hope no one will censure us for putting all the time upon it that was required to make it perfect.

**Guaranteed Eggs.** This is the season of the year when the cold-storage or otherwise preserved eggs are brought from their hiding places and find their way to the breakfast table of the unwary consumer. In a country where the poultry industry has developed to the extent seen in America, it should always be possible in any town to buy eggs absolutely above reproach.

Unfortunately, however, this is not the case, and the patrons of many of our first-class hotels and summer resorts have their nostrils offended and their appetites ruined by the ancient henfruit which is placed before them. Poultrymen should see that there is always a sufficient supply of guaranteed eggs and the patrons of respectable hotels and boarding houses should make a row when stale eggs are encountered at the table. Let us have an abundance of that greatest of luxuries—the newly-laid egg.

**Take Advantage of It.** Advertisers should present advertising rates, and make their contracts for the year before the new rates go into effect. The new rates will begin July first and are a slight advance over our present ones. This advance is due to our large increase in circulation, and is a comparatively low rate for the number of copies printed and circulated. The coming year promises to be a good one for the poultry industry, and those having stock for sale should take advantage of our columns, and place their goods before our readers. THE FEATHER is one of the very best mediums for reaching the buying public, and those advertisers who have been regularly in it express the highest praise for THE FEATHER as an advertising medium. The summer is a splendid time for considering this important question, and quick action will prepare you for meeting the rush when it comes.

**Fine Printing.** We desire to call the attention of our subscribers who are in need of printed matter, to our enlarged and modern facilities for doing all kinds of job printing. We

## THE FEATHER ART PORTFOLIO

Contains six beautiful pictures in natural colors and tinted half-tones. These are works of art and are unexcelled for naturalness and artistic effects. They are praised highly by all who have seen them. These pictures are printed on the best enamelled paper, and are suitable for framing. They should be in the homes of all lovers of poultry. This set of pictures is as follows:

1. Barred Plymouth Rock Male.
2. Light Brahmas.
3. Black Langshans.
4. White Wyandottes.
5. Buff Leghorns.
6. Black Minorca Male.

We will send the complete set of six pictures as above, mailed flat to any address in the United States on receipt of fifty cents.

## OUR LIBERAL OFFER.

To everyone who sends us 50 cents to pay for one year's subscription to THE FEATHER, we will send absolutely free the complete set of six pictures as listed above. This is a grand chance to get free the best and most artistic collection of pictures yet published. Send us 50 cents and we will send THE FEATHER to your address for one year, and also the above set of pictures. If you are a subscriber you can have your subscription extended for one year, and we will send the pictures to your address on receipt of 50 cents. Make all remittances payable to

GEORGE E. HOWARD & CO.,  
S. W. Cor. 8th and H Sts. N. W., Wash., D. C.



have a large display of type for this class of work, and our machinery is of the most improved order. We can furnish use of cuts on all printing, which we do without extra charge. Our prices are very low, much lower than can be gotten elsewhere for the same class of work. All work done by us is guaranteed to give perfect satisfaction or money will be refunded. We will be pleased to estimate on any printing that you may want, and will give you reasonable figures on same. Let us hear from you, and we will, no doubt, be able to help you get up some attractive printing and engraving that will bring you customers when nothing else will. A trial order will convince you of the merits of our work.

#### Complimentary.

I am greatly indebted to the editor of THE FEATHER, not only for his kind words, but also for the excellent results from my ad in his paper. May it live long and prosper!—GEO. H. MORRIS, Richmond, Va.

Enclosed I send payment for the renewal of your wide-awake journal, THE FEATHER. I find the supplements to be worth alone many times the cost of the paper.—MILAN A. BRAYTON, Taunton, Mass.

The American Fancier's Poultry Book is the best book in the world on poultry raising. THE FEATHER is the best poultry paper that I have been taking. I am taking three papers and think THE FEATHER is the best of the three, and would not be without it.—P. C. MYERS, St. Louis, Mo.

We are grateful to you for not a little of our trade in your section. We believe THE FEATHER *pays us well*. Also, we express our thanks for the publishing of the Plymouth Rock painting as showing one of our noted birds. The Brahman painting in January is great and a fine feature of that issue.—BRADLEY BROS., Lee, Mass.

I herewith enclose 50c. for one year's subscription to THE FEATHER, a thing I have been intending to do for some months and should have done but much other business and procrastination caused the delay. I will not avail myself of your kind reduction offer. THE FEATHER has afforded me too much pleasure and given me too much needed and valuable information for me to take away one cent from its revenue, for I know of no way I could spend \$5 that would afford me half the pleasure, and I do not expect ever to let my time run out, or be without it again.—W. B. WALTON, JR., Nashville, Tenn.

This closes my first year's ad in THE FEATHER, and as an advertising medium it is perfectly satisfactory to me. In fact, during the year, I received fifteen letters inquiring for eggs from those who said they saw the ad in THE FEATHER, and since September 15, I have received twelve inquiries about stock and sold to eight different parties, and I have two to hear from, and one unanswered letter in hand waiting for an answer from the other two. That will take all the stock I can spare with the exception of one cockerel. THE FEATHER is surely the only paper for me. Next year, or this coming season, I will raise enough to supply the demand, so good luck to THE FEATHER and long may she grow healthier, wealthier, and wiser.—E. D. CROUCH, Washington, D. C.

## NOW READY!

### The Only Reliable, Practical, and Authentic Up-to-date Work Published

ON THE ———

# DISEASES OF POULTRY.

—BY

## D. E. SALMON, D. V. M.

Chief of the U. S. Bureau of Animal Industry, Dean of the Veterinary College of the Columbian University, Honorary Associate of the Royal College of Veterinary Surgeons, Ex-President of the U. S. Veterinary Medical Association, Fellow of the American Association for the Advancement of Science, &c.

The only modern book on this subject in the English language.

The only illustrated book on poultry diseases.

The only systematic and thorough book.

Every poultry keeper needs it, and will save money by having it.

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#### CHAPTER I. INTRODUCTION.

The Poultry Industry—Health and Disease—The Organs and Apparatus and their Functions—Common Causes of Disease—Hygienic Requirements—Disinfection—Objects of Medical Treatment.

#### CHAPTER II. DISEASES OF THE ORGANS OF RESPIRATION.

Structure and Function—Simple Catarrh—Roup, Contagious Catarrh—Bronchitis—The Gapes, Vermineous Tracheo-Bronchitis, Syngamosis—Congestion of the Lungs, Pulmonary Congestion—Pneumonia—Mycosis of the Air Passages, Aspergillosis—The Air Sac Mite.

#### CHAPTER III. DISEASES OF THE ORGANS OF DIGESTION.

General Remarks Concerning the Digestive Organs—Obstruction of the Beak—Inflammation of the Mucous Membrane of the Mouth, Pip, Catarrhal Stomatitis—Thrush, Aphthæ—Diphtheria—Psorospermiosis—Aspergillus—Croupous Angina—Obstruction of the Pharynx—Catarrh or Inflammation of the Crop—Paralysis of the Crop, Impacted Crop, Obstructed Crop—Abnormal Appetite, Aberration of the Appetite, Catarrh of the Proventriculus, Inflammation of the Stomach, Gastritis.

#### CHAPTER IV. DISEASES OF THE ORGANS OF DIGESTION. (Continued).

Gastro-Intestinal Catarrh, Simple Diarrhea, Gastro-Enteritis, Enteritis—Constipation, Intestinal Obstruction—Toxic Gastro-Enteritis—Bacterial Enteritis—Asthenia, Going Light—Psorospermiosis—Infectious Entero-Hepatitis of Turkeys, Black Head—Parasitic Worms Which Infest the Digestive Apparatus—The Nodular Tæniasis of Fowls.

#### CHAPTER V. DISEASES OF THE PERITONEUM, LIVER, AND SPLEEN.

Peritonitis, Inflammation of the Peritoneum—Chronic Peritonitis, Ascites, Abdominal Dropsy—Diseases of the Liver—Congestion of the Liver—Inflammation of the Liver, Hepatitis—Icterus, Jaundice, Biliary Repletion—Atrophy or Wasting of the Liver—Fatty Degeneration of the Liver—Fatty Liver—Tuberculosis of the Liver, Spleen, and Peritoneum.

#### CHAPTER VI. DISEASES OF THE ORGANS OF URINATION AND REPRODUCTION.

Brief Description of the Organs of Urination—Parenchymatous Nephritis, Inflammation of the Kidneys—Abscess of the Kidneys—Obstruction of the Cloaca by Urinary Concretions—The Male Organs of Reproduction—Hypertrophy or Enlargement of the Testicles—Cancer of the Testicles—Fatty Degeneration—The Female Organs of Reproduction—Atrophy of the Ovary—Tumors of the Ovary—Gangrene of the Ovary—Inflammation of the Oviduct—Prolapsus or Eversion of the Oviduct—Difficult Laying, Egg Bound, Obstruction of the Oviduct—Gangrene of the Oviduct—Rupture of the Oviduct—Cloacitis, Vent Gleet—Anomalies in Egg Production—Egg Incubated in the Oviduct—Parasites in Eggs—Sanguineous Eggs—Eggs Without Shells—Eggs With Two Yolks—Incomplete or Aborted Eggs—Eggs Within Eggs.

#### CHAPTER VII. DISEASES OF THE BRAIN.

Cerebral Hyperæmia, Congestion of the Brain, Vertigo—Hemorrhage of the Brain, Apoplexy—Epilepsy.

#### CHAPTER VIII. DISEASES OF THE HEART AND BLOOD VESSELS.

Pericarditis, Inflammation of the Pericardium, Dropsy of the Heart Sac—Endocarditis, Inflammation of the Internal Membrane of the Heart—Hypertrophy of the Heart—Rupture of the Heart and Large Blood Vessels.

#### CHAPTER IX. PARASITES AND DISEASES OF THE SKIN.

The Epizoa or Parasites Living upon the External Surface of the Body—Scabies or Mange of the Body—Scabies Caused by Epidermoptes—Scabies Caused by Sarcoptes, Depluming Scabies—Favus—Chicken Pox, Sore Head, Pigeon Pox.

#### CHAPTER X. DISEASES OF THE FEET AND LEGS.

Leg Weakness—Superficial Sores—Deep Bruises and Abscesses—Rheumatism and Gout—Scabies of the Legs, Scaly Legs.

CHAPTER XI. DISEASES HAVING A TENDENCY TO AFFECT MORE THAN ONE SET OF ORGANS.  
Tuberculosis—Diphtheria, Diphtheritic Roup, Infectious Leukæmia—Fowl Cholera.

#### CHAPTER XII. INJURIOUS HABITS OR VICES.

Egg Eating—Feather Eating—Feather Pulling.

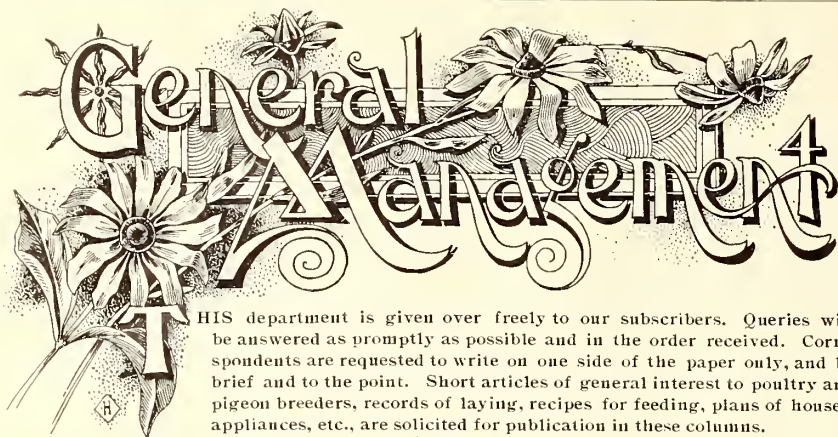
Orders will be filled in regular order as received. Price, 50 cents. Clubbed with THE FEATHER one year for 75 cents.

### GEORGE E. HOWARD & CO.,

..Publishers..

S. W. Cor. 8th and H Streets N. W., Washington, D. C.





THIS department is given over freely to our subscribers. Queries will be answered as promptly as possible and in the order received. Correspondents are requested to write on one side of the paper only, and be brief and to the point. Short articles of general interest to poultry and pigeon breeders, records of laying, recipes for feeding, plans of houses, appliances, etc., are solicited for publication in these columns.

### An Interesting Letter.

*Editor The Feather:*

During three score years of business contact with the world I can not recall an instance when I showed the white feather in regard to a bitter pill or hard contract, or dodged a mite when alternatives were cruel. Therefore, I think I am pardonable when I accept a most generous offer, such as you have sent me. Long-felt wants are sometimes filled, but oftener not. That hole in the pasteboard now contains the emblem of a widely-spread but well-protected people, and when you are assured of its genuine ring, please add my name to your subscription list for the year 1899, beginning with the January number, minus the March number, which I have just received.

Now, by way of apology for not sending in my renewal, I have been absent some months, yet still interested in current events, among which are the provision for the wellbeing of your city by proper appropriations of Congress. I would only suggest a further enactment—that every visitor to Washington be compelled to subscribe to THE FEATHER. I have been in the past a frequent visitor myself, in connection with the U. S. Fish Commission and almost concluded that bread-winners were scarce. You deserve a place among the few.

The request of your correspondent that unbiased statements be made as to the best layer will doubtless elicit a perfect medley of responses from breeders of special breeds. Accept my thanks for an article in the December number, 1897, which enables me to-day to add my experience to that of others. It will conflict with no one's interest, and I may add the principle was condemned by yourself. I allude to your remarks as to crosses, in which you stated that the best you had ever made, among many, was the Black Minorca cock upon Light Brahma hens. You gave details of the results, which I have

### One Cause for Bowel Trouble in Chicks.

*Editor The Feather:*

There has been a great deal said in regard to proper food for young chicks to avoid bowel trouble, and there is great danger in chicks dying from this disease. A great many writers claim that most all depends upon the feed; but my experience teaches me that far more depends upon the proper care of the drinking water. Rankin, in his work on the rearing of chicks, says: "Chicks will thrive on almost any good, substantial food, providing they have good care." I came across an article upon this subject in an issue of the *Poultry West*, which touches my view in regard to the water question better, perhaps, than I can treat it, so I quote a part of the same, which proves to my satisfaction that improper drinking water has more to do with causing bowel trouble than does improper feed.

"Now, about the 'summer drinks' for 'chicks'—chickens, pullets, cockerels, hens, and roosters: it is not necessary to make it in any way different from the water served in cold weather, only that it must be kept cool. It may take three or four renewals during the day, but it must be kept cool and pure. If left in an open, flat vessel, as a trough or pan, and not specially protected from the rays of the sun and the tramping of the fowls, it will very soon become so hot and filthy that the stench from it would disgust a decent buzzard. There are, at this minute, 4:41 P. M., June 27th, 1898, at least one million of such filthy vessels in Kansas, and if the bulb of a thermometer was inserted in the water, it would soon register 98 in the shade; only it is not in the shade, unless the sun has gone too far down to shine on it. It was at 108 in the sunshine yesterday. This is important because a great many thousands of men and women will be charging up the diarrhea, that is weakening their 'chicks,' to some cause like feeding cornmeal or chop; when, as a matter of fact, it is due almost every time to drinking high-temperature water impregnated with the droppings of chickens.

"A little personal observation at home may be given just here, without an over-dangerous display of self-esteem. It is as follows: Every young chicken on our place has been fed on cornmeal, corn chop, cornbread, hard, dry, soft, sweet or sour, as might be, and has had little else all spring and summer. The mash has been, as a rule, very sloppy. Despite the warnings of writers and of poultrymen, there has not been a case of indigestion or diarrhea on the place up to this time. The water has been kept pure and fresh, and all

the time tintured with the Douglass mixture.

"Don't send some one to water your chickens, but go yourself, and go five or six times a day. Do you say that you can't afford to 'fling in' so much time at it? Well, then go and run a threshing machine, or a saw mill, or a wholesale store, or a Sunday school, or a newspaper, or a church, or a high school, or some other easy job that does not need watching all the time; or run for governor."

My method of keeping my drinking water pure and cool for chicks is to set the fountain upon a board near the coop or brooder. (If set on the ground chicks will soon get it foul by scratching about it). Then I prepare a box to be used as a cover. Take a common dry goods box of the right size to cover the fountain and at the same time give chicks plenty of room around it, take one side off and set over the fountain, setting the open side towards the north. This kind of covering keeps the sun out the entire day. Change the water at least three times a day and you will have no trouble from impure water.

HENRY TRAFFORD.

# WHITE WYANDOTTES ONLY.

500 Settings of Eggs

== AT ==

\$1 PER 13, AFTER MAY 10,

From the very best of

White Wyandottes,

FORTY PENS.

Just as good as you can buy from \$3 to \$5.


THE HOME OF THE

# WHITE WYANDOTTES,

Willowcrest Poultry Yards,

GOSHEN, N. Y.

J. E. WHITE, Manager.





verified during the past twelve months.

Pardon a personal explanation—I have been for seventy years a lover of fowls—on and off the table. For twenty-five years there were with us but two breeds—the dunghill and the true Game. The latter was carefully bred and disseminated from the mouth of the Mississippi to all points west of the Alleghanies, to quiet the nerves of Indian fighters and sportsmen alike. The first importations of Oriental and Mediterranean fowls were seen and admired by me. I have never appeared before the public as a breeder or a salesman, yet I have been awakened by the crowing in my own barnyard of most every approved variety that has been introduced, have been scratched out of my own garden by the Rocks, have been ashamed of myself from the close inspection of the saucy Leghorns, have had my own liver regulated by my efforts to excite the bile of my Cochins and Brahmas, and have swapped roosters with religious zeal at the request of any mean cuss that applied. Now if I am entitled to full membership without probation, reprint your experience as in that article. I shall every year breed them just that way on my farm, then take the pullets to the center of a big city, and enjoy eggs when money can not secure them elsewhere.

Should you ever indulge the readers of THE FEATHER by reprinting the article spoken of you may add that in color the chicks are marked so the sex can be surely known when first hatched: every pullet comes dark brown or black, the cockerels are almost as white as pure Light Brahmas, just reversing the colors of the parents. And still further, the females scarcely show a sign of leg and toe-feathering, while the males make quite a display in that line. The mature hens are nearly a uniform tawny brown. I call them "Quakers" because of their plainness, a name to which they have a greater claim—they never cackle after laying, but quietly go about other affairs, without proclaiming to the world what they have accomplished. They equal any breed of fowl for the table. Their legs are olive-colored, their flesh is white, and shows dark pinfeathers. They have very short lop combs, which don't freeze.—C. F.

The above letter was not written for publication, but was sent as many others are sent by our subscribers in commending our work. It is not easy to identify the writer, and we can see no harm in using same, as it is brimful of good reading, and we want all our readers to share, as much as possible, the good things we enjoy. We are pleased to note the writer's success, and hope others have enjoyed the same privileges that he does.—Ed.

#### HOMING PIGEONS.

I have purchased several lofts of record birds, and am compelled to dispose of several pairs of grand breeding Homers at a great sacrifice. The Ideal Lofts, E. L. BARCLAY, Proprietor, 812 21st Street N. W., Washington, D. C.

## ...PATENTS...

For Inventors. No Patent. No Pay. Inventors' Handbook Free to All. 25 years' Experience. Clients in every State. Prompt, careful, efficient, reliable. Address, Hon. J. NAT WARD FITZGERALD, Washington, D. C.

### Boiled Beef and Crushed Bone,

The Ideal food for both old and young chickens.

\$1.50 per 100 lbs.

WM. H. BIXLER, Hagerstown, Md.

### ..BLACK LANGSHAN..

#### —EGGS—

Your last opportunity to get eggs from my stock at these prices.  
\$1 per setting of 15 from 4 pens.  
\$2 " " " " 1 pen.  
Trios, \$5. Ckls., \$2 and \$3.  
JAMES H. LORD, Box 26 F,  
LAWRENCE, MASS.

### Buff Cochins Exclusively.

My breeders are the best money can buy. A lot of early-hatched pullets and cockerels. Eggs as usual, \$3 per 15, or \$5 per 30.

HOMER H. MCGOVNEY,  
Washington C. H., Ohio.

### Maple Grove Poultry Farm

L. O. BROMLEY, Prop.,  
Forestville, N. Y.



### Single Comb Brown Leghorns.

I exhibited this season in N. Y., Pa., and Ohio, 21 birds and won nine 1sts, five 2ds, four 3ds, one 4th, and one 5th; seven out of 21 scored 94-95. Eggs, \$1.50 per 15; \$2.50 per 30. Catalogue.

They will  
Win for You.

**Trafford's Buff Rocks** Are Coming to the Front.  
Have proved themselves to be winners for his customers in the best shows in the country. I have the proof and they will do the same for you. All stock shipped on approval. Trafford's Liquid Lice Formula, 25c, warranted to kill all kinds of Lice, Mites, &c., by simply painting drop-boards, &c. No handling.

HENRY TRAFFORD, Chenango Forks, N. Y.



First Prize at  
Washington, 1899.

### ...EASTERN SHORE POULTRY YARDS...

S. C. WHITE AND BROWN LEGHORNS ONLY.

At The Great Washington show in 1899 our S. C. White Leghorns won 1st on cock and pen, 3d on cockerel, and 4th on pullet. 4 prizes on 4 entries. How is that? We have green range the year around. Eggs, \$1 per 15, or \$5 per 100. Belgian Hares for sale.

H. E. VAN DEMAN & SON, Parksley, Va.

## ...MITES AND LICE ON YOUR POULTRY?

Paint roosts with Lee's Lice Killer.  
All done.  
Next morning look, and see all lice and mites lying dead on roost-boards.  
Many customers report finding them in piles a half inch deep where each fowl roosted the night before.  
Seeing is believing.  
Same with hogs.  
Paint rubbing-posts or sprinkle floor of sleeping-pen.  
All done.  
No more lice, mites or fleas.  
No handling, no labor.  
Cheap.  
Only 75 cents for a gallon can.

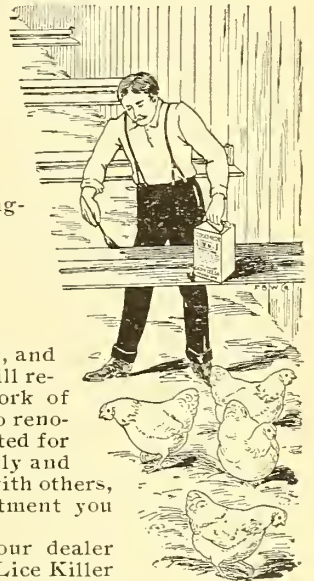
**Try our Lee's Lice Killer:** Test it thoroughly, and if you do not find it to be as represented by us, we will refund your money. Don't expect a quart to do the work of a gallon. Don't expect a little dab here and there to renovate a large poultry-house that may have been infested for years with mites and other vermin. Use it honestly and with a mixture of common sense, and you will say, with others, that the can of Lee's Lice Killer was the best investment you ever made.

No need to pay a cent for express charges. Your dealer should supply you, as he can readily procure Lee's Lice Killer when ordering other goods, and we now have distributing agents at most principal points in the United States.

Full particulars, list of agents, and 64-page book on "How to Get Rid of Insects and Diseases of Poultry and Stock," mailed free on application. Sample Lee's Lice Killer, prepaid, 10 cents.

#### Price of Lee's Lice Killer:

1 quart can, 30c.; ½ gallon, 50c.; 1 gallon, 75c.



## GEO. H. LEE CO.,

Omaha, Nebraska,

or 68 Murray Street, New York City.



### Roup or Diphtheria.

Editor The Feather:

I am having an experience with chickens I never had before, and I do not see anything in THE FEATHER seeming to meet the case. Through some new chickens bought and brought here, though not kept with mine, a cold was introduced among mine. I think it was grippe. I never have had any illness except a little molting laziness. I had one or two killed as they seemed very bad and did not respond to treatment. The rest all recovered. Then I had the house all cleaned and fumigated twice, the tar paper taken off and new put on. This cold was two months since. As soon as they had recovered, last week in fact, I sold off a number of the oldest fowls. For a week past I notice my best pullets that are laying are a little mopy, and a little white spot comes in the corner of one eye; gradually they seem blind in that eye, as they turn the head to look from the other. It swells a little, and the white spot grows dark and watery looking. They are fine looking, not for fine points, perhaps, but for health; combs are red as possible, plumage beautiful. I think they are clean, I know they eat and drink clean food and water. I have put carbolic acid in the drinking water, and I have bathed the eye and mouth with the same. They seem to have some throat trouble, as they keep using the mouth and throat, and stand around. I feed very little corn at night, meat, clover, and the grains you recommend. I can not think it cold, as they are well housed, and I am puzzled, as I have never had these experiences before. I only have about thirty, all told. The house is only a little over four years old. Can you suggest a cure, or a name for the illness from the symptoms? I use no patent medicine except Pratt's Poultry Food, and very little of that. I did use a little red pepper or ginger in the mash when they were molting. They look fine I think.—L. Mac L., Bloomfield, N. J.

Your chickens have either roup or diphtheria. Look in the mouth and see if there are any white patches caused by formation of false membrane. In either case you may apply carbolic acid solution of two-per-cent strength and disinfect houses. When one remedy fails another sometimes succeeds. Solutions of sulphate of copper, boric acid, chlorate of potash, etc., are all good. Would advise you to consult Dr. Salmon's book on Diseases of Poultry.

### Bloodshot Gizzard.

Editor The Feather:

Please inform me what makes the lining of a chicken's gizzard soft and bloodshot, and look as though the grit had cut it.—F. C. B., Plain City, Ohio.

This may be due to indigestion and catarrh of the digestive organs, or it may be caused by too sharp grit such as pounded glass. Some people think that anything however hard and sharp will go through a chicken's stomach without injury. This is a mistake. While gravel assists digestion, glass, broken crockery, and too sharp flint may cut the mucous membrane and cause wounds and inflammation. If the grit is all right, change the feed.

### MOST NOTED STRAINS

B. P. Rocks, Sherwoods, C. Indians, W. & S. Wyandottes, S. C. Buff Leghorns, and B. Javas. Fine as silk. Prize winners. Eggs, \$1.50 per 15; \$2.75 per 30. After June 15th, 75c. per 15. Breeding pens for sale July 1st.

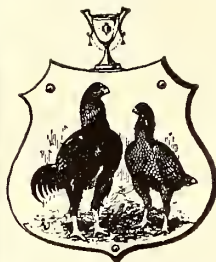
A. R. MARKEL, Tyrone, Pa.

### Can Hardly Walk.

Editor The Feather:

I have a Wyandotte hen that can hardly walk. It seems that she is weak in the back, or that something is the matter with her thighs. If she tries to stand up she either falls backward or forward, but never to the side. Can you tell me what is the matter with her, and what to do for her? I do not see how any one raising chickens can get along without THE FEATHER.—C. T. B., St. Marys, Ky.

The hen either has been injured about the back or is suffering from rheumatism. Try tincture of aconite root, mixing sixteen drops with two ounces of water and giving half a teaspoonful three times a day. After a week stop the aconite and give three or four grains of baking soda daily in the drinking water. See that the house is dry, the roost low, and that there are no draughts.



SUPERB...

**Cornish  
Indians  
AND  
INVINCIBLE  
White  
Plymouth  
Rocks.**

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"John Bull" and "Queen Vic," winners at Crystal Palace, London, 1897. Recently imported by us. Winners at the leading shows in the U. S. and abroad. Send for large catalogue.

LEE F. MILLER, Elizabethton, Tenn.

### Our Bone Cutter Book

treating of balanced rations for all fowls, young or old, will interest any poultryman. It also tells about the Webster & Hannum—the only bone cutter receiving an award at World's Fair, Chicago. Also, Clover Cutters and Grit Crushers.

It is free, but may save you many dollars on your feed bill. Write for it.

E. C. STEARNS & CO., Box 16, Syracuse, N. Y.

### PEEP O'DAY BROODERS



have made our name famous everywhere. We refer you to the N. Y., Mass., R. I., Me., Experiment Stations, or to any well-posted poultry man.

**Hatch Your Chickens in PEEP O'Day Incubators.**  
Illustrated Catalogue Free.

E. F. HODGSON, Box 6, DOVER, MASS.

### A Great Mistake



it would be to purchase an incubator or brooder without first getting a copy of our 148-page catalogue. It costs 6c. but is worth a dollar to you for the poultry information it contains, to say nothing of the pointers it gives you. Send for it at once.

DES MOINES INCUBATOR CO., Box 3, Des Moines, Ia.

# Greolene Poultry Paint.

The Best Vermin Destroyer  
...on the Market...

Can be used with perfect safety and is guaranteed to free your poultry and buildings of all mites and lice if used according to the printed directions on each can.

We are also Manufacturers of

# Carbolized Dust

For dusting-boxes, dropping-boards, &c., &c. Takes away all moisture of droppings and makes your house healthy, thus preventing diseases in your poultry. Why pay 20 to 30c. per lb. for lice powder when our **Carbolized Dust** will do the same thing at 1-30 of the cost. Put up in cotton sacks at the following prices:

50 lb. sack 50c.

100 lb. sack 90c.

1 ton \$16.

We will pay a reward to any one who will prove our goods are not as represented.

We want an active agent to work for us in each State and County in the United States, a chance for you if you are a hustler, if not we do not want you. Write at once as these goods will be placed on sale in your town, and why not be the one to make some money?

### A COMBINATION OFFER.

To introduce our goods to all of the readers of THE FEATHER we will give for the next 30 days one Gallon of our Greolene Poultry Paint and one Sack of Carbolized Dusting Powder for \$1, and ship promptly on receipt of order. Remember that all of our goods are fully guaranteed.

We are, also, manufacturers of all kinds of

Roofing Materials, Paints, &c., &c.

**Cattaraugus Roofing  
& Paint Company,**

Salamanca, N. Y.



## HARTNEST STRAIN OF LIGHT BRAHMAS.

ORDERS NOW BOOKED.

Stock in any quantity for delivery after November 1st. Bred from

**Heavy=Laying, Prize=Winning Stock,**  
Winners at New York and Boston, 1899.

ONLY CASH ORDERS BOOKED.

Handsome catalogue ever issued by a poultry breeder for 10c.

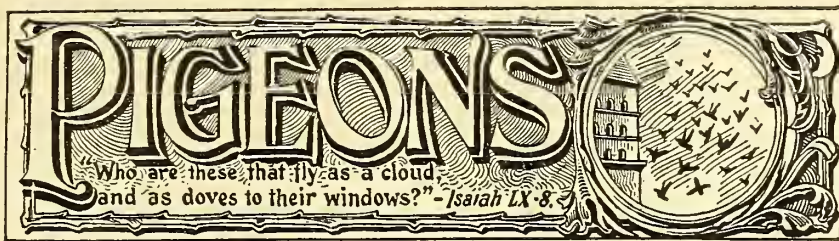
HARTNEST PARK,

SAM'L FOOTE, Superintendent,

Box 10, Framingham, Mass.

(To avoid mistakes address exactly as above.)





CONDUCTED BY J. C. LONG, NEW YORK CITY.

## FEEDING YOUNG PIGEONS.

A Timely Article of Interest to Pigeon Breeders.

BY J. C. LONG.

**S**OME varieties are notably poor feeders, such as Carriers, Pouters, Short-faced Tumblers, Barbs, and some of the other short-billed varieties, and while they may for the first few days do very well, after this they become negligent and the young suffer accordingly. Many fanciers, after learning the failings of their breeders, guard against it by providing foster-parents from some of the better feeding varieties, and as soon as the young are hatched transfer them to the nest of the foster-parents, having previously arranged that the two pairs shall hatch about the same time. The young of the foster pair being substituted for those of the fancy pair, this enables the poor feeders to feed off their "soft feed," as it is termed, otherwise they would sicken and perhaps die. At any rate, it would affect them to such an extent as to prevent their laying again for some time, while by feeding off this "soft feed" it keeps the system in a healthy condition and nature is not interrupted in its actions.

Sometimes the best-laid schemes, like those of "mice and men," miscarry, and the supposed poor nurses raise their mongrel pair, while the reliable pair neglect their charges, and the hoped-for good results come to nothing. But this does not often occur where you know your feeders. But the best of them are erratic, and often by their irregular attentions spoil one's calculations, so that breeding after all becomes a matter of luck. For feeders you can use common pigeons, Antwerps or Tumblers, in fact any pair that experience tells you attend carefully to their young. I have found that varieties such as Carriers, Pouters, and Barbs, that are notoriously bad nurses when kept in confinement, frequently, when given perfect liberty to go in and out as they please, having plenty of outdoor exercise, make as good feeders as one could wish. The change from the artificial to the natural conditions seems to work wonders in such cases.

In making selections for feeders, as far as possible select them according to the varieties you want to raise; for instance, for long-billed varieties, you want long-billed feeders, for the short-billed, you want either short or medium-billed varieties, for it can be readily seen that a short-billed bird, no matter how good a feeder, could not feed a Carrier or a Pouter as well as an Antwerp, a Dragon, or a common pigeon.

While most Pouter breeders find it necessary to employ nurses for raising their young, I have in my long experience known of one Pouter breeder who raised a great many in the course of a season, and who depended alone on his Pouters to care for their young. This they did as perfectly as any pigeons do, and go to his lofts at any time and you would find plenty of fat squabs in the nests, and well-matured squealers running about the floor. Another thing, he disregarded all advice and example in the matter of feeding hemp seed. He scattered it about lavishly, and his birds were never without it. It may be that the stimulating effects of this grain was the cause of such good results in raising so many. But like the effects of strong drink, once addicted to the use of it, it became a necessity, for Pouters taken from the loft and fed in the usual way, soon lost their sprightly appearance, and if they did not die, it

took a long time for them to again regain their life and animation, and come back to what we might term a normal condition.

In choosing feeders also some consideration must be taken of their dispositions. As far as possible select those of a quiet and courageous disposition, and avoid those of a wild and nervous temperament, as such are likely to jump from the nest at your approach, a habit that greatly interferes with incubation. Should the beginner be so situated as not to have any feeders for his young squabs, and notice that the parent birds were neglecting them, he can then feed them artificially, if they are valuable, by taking crackers or toasted bread crushed fine and mixed with warm milk or warm water, then taking a small syringe, either of glass or rubber, and injecting the food into their throats. This can be done until the little crop is well filled. Three or four doses of this kind each day will bring the young birds through all right. As they grow older and able to take coarse grain, soak peas, wheat, or small corn, till well swollen, then put these into the mouth, when they will swallow and soon fill their crop. Some fanciers more enthusiastic than fastidious, take this food into their own mouths, masticate it well, then taking the young bird in their hands and placing its bill in their mouth, with the assistance of the tongue force the masticated grain into the young birds' mouths and so fill their crops.

The young pigeon soon learns to like



REV. HENRY M. LADD, Prop.

## CRESCENT FARM

Box F, KENT, OHIO, U. S. A.

### BUFF COCHINS

Winners at MADISON SQUARE GARDEN, NEW YORK, BUFFALO, CLEVELAND and ELMIRA.

### WHITE LEGHORNS

Which won nearly everything Competed for at Buffalo and Cleveland Last season.

We can furnish some very choice young stock bred from the above winners.

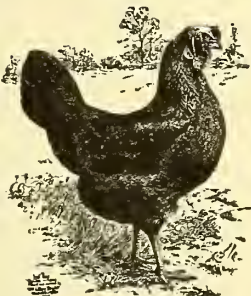
Send for Catalogue.

Address E. T. BLOOD, Mangr.

## LOOK AT THE LIST

...OF...

## FIRST PRIZE WINNERS



EGGS: \$3 per 13;  
\$10 per 50.

These from the same matings  
I use myself. None other  
matings made.

AT the head of my matings for 1899. My catalogue of matings tells you all about it. Send for one and be convinced that the strongest matings

Barred Plymouth Rocks,  
Brown Leghorns,

....Are in these yards.

16 First Prize Winnings  
at New York and Boston  
now in the yards.

## GROVE HILL POULTRY YARDS,

A. C. SMITH, Superintendent,

W. E. BRIGHT, Prop.

Box 411, Waltham, Mass.



this manner of feeding and will evince the greatest apparent joy at the master's approach, squealing, flapping its little stubs of wings, and raising up and down in the nest. Many a good bird has been raised in this manner, but I would only advise the practice in case of necessity. A watchful fancier visits his lofts often and can soon tell what pairs are feeding well and what are neglecting their charges, by feeling of their little crops. If well filled and distended and the young bird feels warm you may know the parents or nurses are attending to their business. Sometimes you will find a young bird with a crop full of hard grain and his body cold and clammy. This shows the old birds have been feeding grain it can not digest and that it is not benefiting the squab. There is not much hope for such a case except to keep it warm by some artificial means and give some warm soft food. This will sometimes save it.

Young healthy pigeons grow very fast when properly fed, in fact you can see the increase in size from day to day. Often one of the young pigeons will grow faster than the other, which shows that the stronger bird is getting the most of the feed. In this case it will be necessary to give the weaker one some assistance by artificial feeding, as heretofore recommended. While I believe cleanliness to be a necessity and every way an advantage, I do not believe in carrying it so far as to interfere with breeding operations, and think that the less both old and young are disturbed the better the chances for success. Some breeders make a practice of cleaning their nest-pans during the breeding season, every few days, transferring the young to a fresh bed of sawdust, by exchanging the nest-pans. This may work well with quiet-dispositioned birds, but I believe the better way would be not to disturb the young birds at all until ready to leave the nest themselves. Of course, the accumulation of filth about the nest will be considerable, but if this is frequently sprinkled with sawdust, or what is even better, land plaster, it will absorb all the ammonia and render it dry. I think it will be found, especially in the case of shy, suspicious birds, that they will feed the young longer, and also that the young birds will stick to the nest longer than if frequently moved, a condition very desirable to prevent their being abused as they frequently are when out of the nest before they can care for themselves.

### INCUBATORS and BROODERS.

These Incubators are self-regulating, complete in every respect, and guaranteed to hatch 90 per cent of fertile eggs. Address

M. E. FIRESTONE, Sidney, Ohio.

### BARRED PLYMOUTH ROCKS

—EXCLUSIVELY.—

My matings for this season will produce exhibition birds of high excellence. My stock is of the best blood in the world, and all sales guaranteed satisfactory or money refunded on return of stock. Eggs, for balance of season, \$2 per 15. Stock for sale at all times.

L. H. EDWARDS, La Fayette, Ind.

### POTOMAC VIEW POULTRY FARM,

R. C. GRINDER, Prop., Roslyn, Va.

Breeder of high-class

### B. Plymouth Rocks and Buff Leghorns.

Eggs, \$2 per 15. At Washington, D. C., January, 1899, I won 1st premium on Buff Leghorn cockerel. Stock bred for utility as well as fancy. Satisfaction guaranteed.

## PEDIGREE LAYERS

Will be the only Hens wanted in the 20th Century.

## The "Utility" Automatic Nest

Will register each individual Hen, and the egg she lays, and is the

**ONLY NEST IN EXISTENCE** that will do this with absolute certainty.

Can be made in a few minutes, out of a dry goods box and 10c. worth of hardware. **Plans and Permits, \$3.**

### SYSTEM NO. 2,

**By Which Every Hen Will Keep Her Own Record,**

And at the end of every month will tell you just how many eggs she has laid. No machinery or apparatus of any description. Simply a scientific method of applying

**THE "UTILITY" NEST.**

**Description and Permit, Extra, \$2.**

Don't ask for particulars. None can be given.

C. H. PAYNE, C. E.,

Utility Poultry Farm,

Jamestown, R. I.

### Mr. Hart's Letter— Read It.

NEW BEDFORD, MASS.,  
Jan. 2, 1899.

THE AMERICAN  
CEREAL CO.

Gentlemen:—

March 1st, 1898, I hatched two broods of Golden Wyandottes and immediately began feeding them with

*American Poultry Food*. At first I baked it and fed them the crumbs. Later I fed it scalded.

They thrived amazingly and early in July commenced laying. About the middle of August I noticed three of them becoming broody and on the 25th placed eggs under two of them. On the 15th of September they hatched me some healthy chicks.

All my spring pullets, including some hatched in June, are now laying splendidly. I don't need anything better than *American Poultry Food* in mine.

Yours very truly,

JOHN A. HART.

Feb. 1, 1898,  
I was an Egg.

March 1,  
1898,  
I was a  
Chicken.

Early in  
July, '98  
I was a  
Laying  
Pullet.

Sept. 15, 1898, I was the  
Proud Mother of a fine brood.

You can do as well, or better, than Mr. Hart  
if you feed

## American Poultry Food

A Morning Mash.

Practical Poultry Feeding, a little book covering a wide range of subjects of vital interest to Poultrymen, will be sent you free, post paid, on request.

Address, **SCIENCE DEPARTMENT,**

**THE AMERICAN CEREAL CO., 13; Monadnock Bldg.,**

CHICAGO, ILL.



## THE BUSINESS WORLD.

As Viewed From the Columns of The  
Feather.

### PINE TREE FARM.

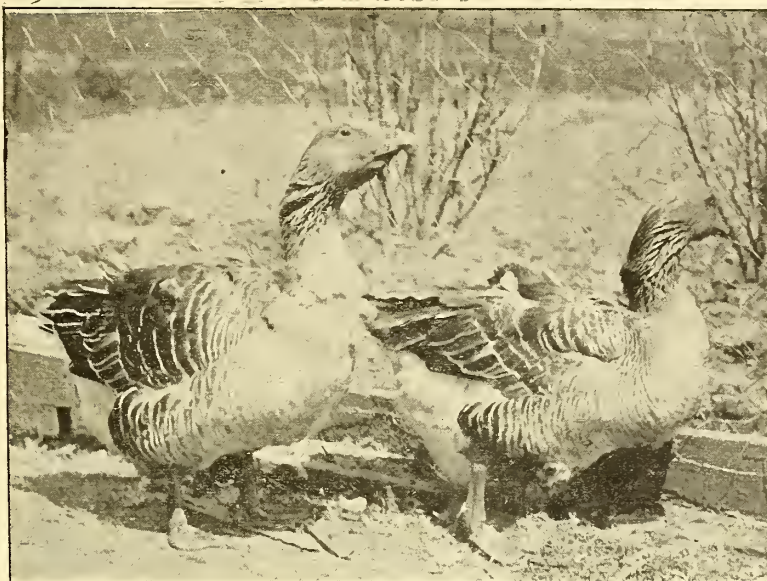
This farm is situated at Jamesburg, N. J., and is owned by Mr. D. A. Mount. It occupies a space of rolling ground, the rear part being considerably higher than the front. It contains twenty acres of land, about one-half of which is shown in the cut. The different poultry and duck-houses cover seven acres. The young stock is scattered around on the balance of the place in small portable houses 5 x 6 feet. This gives them a good start and they grow into strong, vigorous breeding birds. They have the range of a young apple orchard, which is an ideal place for young stock in the warm summer months.

The houses seen in the foreground are the duck-houses and yards, where are quartered some of as fine Pekin Ducks as are found in this country. The feed-room and two brooder-houses are seen on the extreme right. The incubator-house is to the right of the dwelling-house and is partially underground, and to the left is seen the solitary pine tree from which the place derives its name. In the background are the henhouses and yards. There are three rows of houses, eight pens in a row.

There is a large cistern on the highest part of the place which furnishes water for the stock in the henhouses, and is also piped to the dwelling-house and the feed-room on the lower part of the farm. The yards are 36 by 120 feet and are set out with different kinds of fruit trees, principally peach and apple, which are now yielding considerable fruit.

The front part of the laying-house is a scratching-shed with wire front, and extends under the house proper. This gives a good space for confining the fowls during bad weather in early spring, and insures good, fertile eggs for hatching.

The different varieties bred on this farm are White and Barred Plymouth



TOULOUSE GEESSE AS BRED BY PINE TREE FARM, JAMESBURG, N. J.

Rocks, White, Golden, and Silver Wyandottes, White, Buff, and Brown Leghorns, Black Minorcas, Indian and Pit Games, Light Brahmans, White and Pearl Guineas, White and Bronze Turkeys, Pekin and Aylesbury Ducks, Toulouse and African Geese.

Mr. Mount undoubtedly has as fine White Turkeys as can be found, as they have won first prizes at such shows as the World's Fair, Chicago, Madison Square Garden, New York, and Boston. The accompanying illustration shows a pair of them. His geese are not only prize winners but are practical birds as well. The Toulouse Goose shown in the cut laid forty-four eggs this season before she became broody. She is also a first-prize winner. From the illustration of the African Geese an idea of their style, size, and general appearance may be formed.

Since January 1st Mr. Mount has sold about 20,000 eggs for hatching, besides several hundred chicks and ducklings

shipped from the incubator, which he will make a specialty in the future. During the past season he has shipped birds to England, Africa, Jamaica, Mexico, British Columbia, and other distant points, and has received very flattering reports and testimonials from customers. He has out and growing a very large number of chicks, ducks, turkeys, etc., and will mail his catalogue free to all applicants.

### FINE MINORCAS.

Mr. E. D. Crouch, of 1013 G Street, S. E., this city, whose ad appears under Minorcas in our classified columns, is doing well with his Black Minorcas. He has only bred them for the last four years, but he started right, and he says his birds are better this year than ever, and he sells eggs from the same yards he breeds from. He will satisfy every one of his customers, as both stock and eggs are guaranteed. His stock is all right—large, fine plumage, grand shape, fine large combs, good legs and lobes, and that they give entire satisfaction the following testimonials will prove:

\* \* \*

GUNSTON, VA., April 10, 1899.

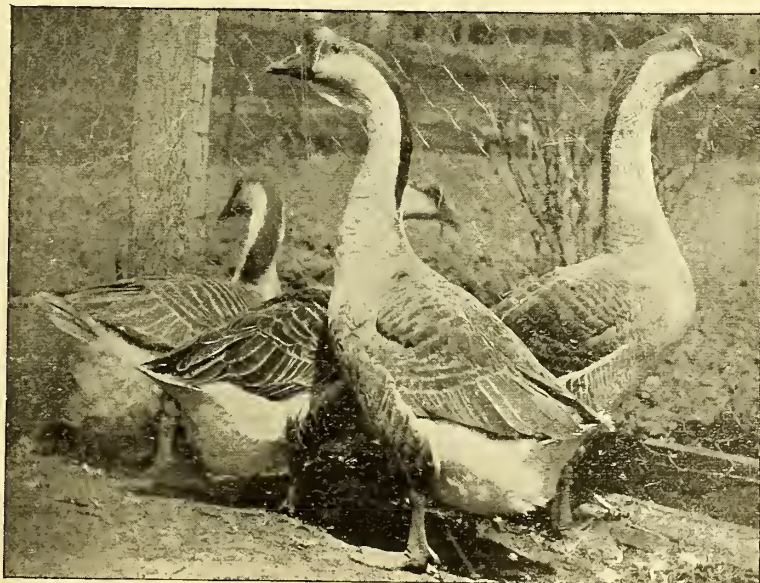
E. D. CROUCH: I received the cockerel and three pullets you shipped to me in first-class shape. They have beautiful combs, lobes, and plumage, and are above standard weight, and I should raise some good birds from them this season. In the fall, or the spring of 1900, I shall want a cockerel not related to them. I have been looking for this kind of Minorcas for a long time; and now I have them, although the price I paid for them was high, I would not take twice the amount I paid you for them. I am getting one and two eggs each day from them. There is nothing better in Fairfax County in Minorcas than I have now and no money could buy them. I will recommend you to all of my friends as an honest man, and you can be trusted to send exactly what you say you will send.

HARRY H. SUTTON.

\* \* \*

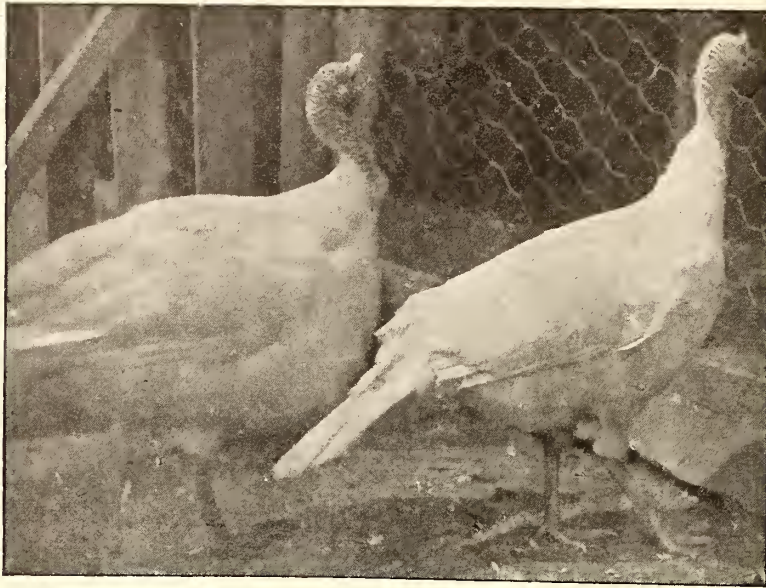
BALTIMORE, MD., April 25, 1899.

E. D. CROUCH: I received the cockerel and four pullets on March 20th. They are grand birds and I am entirely satis-



AFRICAN GEESSE AS BRED BY PINE TREE FARM, JAMESBURG, N. J.





WHITE HOLLAND TURKEYS AS BRED BY PINE TREE FARM, JAMESBURG, N. J.

fied with them, as they are all that you said they were and more besides. I will recommend you to all my friends as an honest breeder. At the same time I received my fowls, I received the two settings of eggs. They were the best packed eggs I ever saw, and all arrived safe and sound, and they are very large eggs. We hatched nineteen chicks out of twenty-six eggs, two dead in the shell, two rotten, and one cracked egg. You can look for another order in May. Let me know in May too late to hatch.

You are all right. I will see you in September.

JOHN MCCARTY.

\* \* \*

BERWYN, MD., April 10th, 1899.

E. D. CROUCH: I received my three settings of eggs in due time. I would have written you sooner, but was waiting to see the results in hatching. I am more than satisfied, hatching and raising nine chicks, each of two settings, and ten from the other. The eggs were the best packed I ever received, and I will order from you again about the

20th of May, and will recommend you to any one who wants Black Minorca eggs.

HUGH C. HAZARD.

#### BUYING FOR CASH.

The advantages of the cash-buying principle are much more highly appreciated than formerly. Present indications point to the fact that at no very distant date the long-drawn-out, interest-bearing account will be a thing of the past. Cash buying is a business short-cut, it is the little path that leads across the fields. It saves business distance.

Not only that, it is a money-making principle. Buying for cash saves interest; interest—money—saved is money earned. Cash selling and buying has gradually led up to another method of conducting business, which is to sell direct from the manufactory to the consumer. This system possesses so many advantages that we can not stop to enumerate them here. It is really the carrying out of the cash-buying plan upon an extended and enlarged form.

Goods are sent upon receipt of cash or are shipped C. O. D. with privilege of examination. Take for instance the Elkhart Carriage and Harness Mfg. Co., of Elkhart, Indiana. They sell everything they make direct from the factory to the consumer. Their terms are either cash with order or C. O. D. with fullest privilege of examination, and their experience is that the cash-buying principle is growing upon the people. By far the greatest percentage of their orders contain cash remittances. This is very complimentary to the Elkhart people and their fair business methods. They are undoubtedly the largest manufacturers of vehicles and harness in the world selling direct to the consumer.



BIRD'S-EYE VIEW OF PINE TREE FARM, JAMESBURG, N. J.



## Classified Advertisements

Fully prepaid advertisements of thirty words or less inserted under this heading at the following rates:

|                  |       |
|------------------|-------|
| One time.....    | \$.50 |
| Three times..... | 1.00  |
| Six times.....   | 2.00  |
| One year.....    | 3.50  |

### READ CAREFULLY.

Copy may be changed as often as desired, though we advise running a standard ad. when possible, in order that buyers may become acquainted with it. Length of ad. is not limited, but additional words will be charged at the rate of 1½ cents each for one insertion, or 1 cent each for each insertion when run three times or more. Initials and figures count as single words.

### PLYMOUTH ROCKS

#### BUFF PLYMOUTH ROCKS ONLY.

Now "Old Glory" proudly waves o'er Porto Rico: The Philippines are ours, and Cuba free; Vast armies must be paid, you can meet the taxes laid.

By breeding Burdick's "Nuggets," don't you see?

My strain is well known as producing the winners at all the leading shows, Chicago, '99 included. Matings for 1899 surpass anything before attempted. January and February eggs half price. Eggs that hatch, for March, April, and May \$3 for 15. After May eggs again half price. Breeding and exhibition stock always reasonable. Write, H. S. BURDICK, Rome, N. Y.

**WHITE ROCKS EXCLUSIVELY.** Bred for practical and exhibition purposes. Two firsts and one second from three entries, Hagerstown, 1898. First and second hens, second cockerel, Washington, D. C., 1899. Eggs, \$1.50 per 13. Stock for sale. J. F. DEFANDORF, Garrett Park, Md.

**BARRED PLYMOUTH ROCKS EXCLUSIVELY.** Thompson strain. Eggs for hatching from six choice well-mated yards. \$1.50 per 15, \$5 per 100. H. E. KIPP, Red Hook on Hudson, N. Y.

**BARRED PLYMOUTH ROCKS.** Thompson & Bradley Bros' strains. Eggs from fine large birds \$2 per 13. "Fertility of eggs guaranteed." T. H. HARTMAN, Fullerton, Lehigh Co., Pa.

**OVERBAUGH'S BARRED PLYMOUTH ROCKS.** Won at Mt. Gretna 1898, 1st and 2d cock, 1st and 4th hen, 3d cockerel, 3d pullet, \$5 gold special and Pennsylvania State Poultry Association Bronze Medal for best display. Eggs \$2 for 13. "Hub" 1st Boston cock, heads one of my yards. Also Buff P. Rocks and Buff Leghorns. Catalogue free if mention The Feather. W. H. OVERBAUGH, JR., Hanover, Pa.

**BUFF PLYMOUTH ROCKS ONLY.** "Pure Burdick strain." Winner every time. Eggs, balance of season, \$1.25 per 13; \$2 per 26. My birds are large, good shape, vigorous, and buff. Satisfaction guaranteed. Try me. VERNON K. DAYHOFF, Chewsville, Md.

**THE UP-TO-DATE STRAIN** of Barred Plymouth Rocks. Catalogue for stamp. Stock for sale. Eggs, \$1 per 13. Guarantee satisfaction. If you wish high quality at a fair price, Address, J. M. PORTER, Morristown, N. J.

**BROOKLAND POULTRY YARDS.** Brookland, D. C., are now offering 15 Brown Leghorn eggs for \$2, and 13 Buff Plymouth Rock eggs for \$2, from winners of 51 regular, 8 special prizes, at Washington, D. C., 1899, Coatesville, Pa., Hamilton, Va., Southern Md. Fair, Marlboro, Md., and Rockville, Md., 1898. Write R. C. BOOTH, Mgr.

**EGGS FOR SALE**—\$1 per 15. Barred Plymouth Rocks, Single Comb Brown Leghorns. From first-class stock well mated. Address, GEORGE W. DUVALL, Box 131, Coal Centre, Washington County, Pa.

**BARRED P. ROCKS EXCLUSIVELY.** Bred for business. Large, vigorous, finely barred birds mated with cockerels from Bright and Hunter strains. Eggs, \$1 per setting. ROY C. HASTINGS, Malone, N. Y.

**BARRED PLYMOUTH ROCKS** exclusively. A giant cock weighing twelve pounds in ordinary breeding condition. Hens up to ten pounds, good color, bright yellow legs and beaks. Setting, \$2.50. MILTON H. TAYLOR, Box 55, Masontown, W. Va.

**EGGS** from Barred Plymouth Rocks, winning at Spartanburg show, D. M. Owens, judge, 1st on cock, 1st on pullet, 1st on pair, and best trio exhibited, at \$1 per 13. Satisfaction guaranteed. W. W. FANT, Spartanburg, S. C.

**WHITE P. ROCKS.**—Winners at Cape May, Trenton, and Hagerstown, the past season. One yard headed by cockerel sired by "White Cloud," the famous Fisher's Island winner. Eggs, \$2 for 15. Simplex Incubator and Brooder combined for sale. C. C. BURROUGH, Clayton, N. J.

**WHITE PLYMOUTH ROCKS.** Farm raised. strong, and healthy. Eggs, \$1.50 per 15; \$2.50 per 30. 13 Indian Game hens and 1 cock for sale. M. HARVEY IVINS, Penn Valley, Pa.

**NOYES Breeds Buff Plymouth Rocks** of Burdick's Nugget strain, one of the best in America. My stock were hatched from eggs bought direct from him, and I have some nice ones, good size, shape, and light buff, with buff undercolor to skin, no white nor feathered legs, low combs. Eggs, \$1 per 13, good hatch guaranteed. P. W. NOYES, Mystic, Conn.

### LEGHORNS

**CEDAR HILL POULTRY FARM**—Write to Cedar Hill Fruit and Poultry Farm for prices on Single Comb Brown Leghorn, Barred P. Rock, Buff Cochin and Light Brahma fowls and eggs. Some fine surplus cockerels of first-named breeds for sale low. Eggs for incubator use \$5 per 100; good common eggs (large breeds), \$2.50 per 100. R. S. COLE, Harman, Md.

**FORSYTH STRAIN S. C. BROWN LEGHORNS.** 33 prizes on 33 entries at Rochester, Danville, and Hamburg. My breeders score from 90 to 94. Eggs, \$1 per 15; \$1.75 per 30. Satisfaction guaranteed. FRANK G. RICE, Danville, N. Y.

**LEGHORNS EXCLUSIVELY.** Tenth season. Eggs, \$1. HOWARD A. PINNEY, Sheffield, Warren Co., Pa.

**WE HAVE LAYING QUALITIES,** size, typical shape, standard color; in S. C. B. Leghorns: what more can you ask? Eggs, \$1.50 per 13; \$2.50 per 26. W. B. GERMAN, Specialist, Millville, Pa.

**BUMP'S S. C. WHITE LEGHORNS** made nearly a clean sweep at Cambridge and Johnstown last fall. Eggs from my best mating \$2 per 15; \$5 per 100; from birds with free range. A few good cockerels at \$2 each. White Holland Turkey eggs \$2 per 13. H. V. BUMP, Cambridge, N. Y.

**50 C. PER DOZEN**, \$3.50 per hundred, Wyckoff strain. White Leghorn eggs. Circular free. S. J. BISHOP, Cheshire, Conn.

**SOUTH SIDE POULTRY YARDS.** Golden Wyandottes and Buff Leghorns. Prize winners at Ashtabula and Painesville. 4 fine breeding yards mated to produce the best results. Birds scoring from 90 to 95½ points. Eggs, \$1.50 per setting. C. F. BLACKMON & SON, 116 South St., Painesville, Ohio.

**PLEASANT VIEW POULTRY YARDS.**—Rose Comb Brown Leghorns which have again been winners at all the leading shows. 1st cockerel at Madison Square Garden, 1st cockerel at Boston, 1st cockerel at Hagerstown, 1st cock at Mt. Gretna. Stock for sale at all times at reasonable prices. Eggs for hatching, \$1 per setting. Address, W. G. FRONHEISER, Prop., Pottstown, Pa. J. B. HOFFMAN, Mgr., Sanatoga, Pa.

**SINGLE COMB WHITE LEGHORNS.** My breeding-yard is headed by 1st cockerel at Pittsburg, 1898, a large fine bird mated with 15 Wyckoff females, four of which won 2d on pen at Washington, D. C., 1899. Eggs, \$1 per 15; \$3 per 50. A few pullets, \$1 each, 6 for \$5. Also Barred and White Plymouth Rock eggs same prices as Leghorns. My Rocks are bred for utility. Correspondence invited. C. M. BARTLETT, Agnewville, Prince William Co., Va.

**CHOICE UP-TO-DATE STOCK** of Single Comb Brown Leghorns and Silver Laced Wyandottes. Stock for sale. Satisfaction guaranteed. Eggs, \$1 per 13. If you wish fine quality and fair treatment, address J. M. PORTER, Morristown, N. J.

**BUFF LEGHORNS.** 15 eggs \$1. Best catalogue ever issued on this peerless breed. V. MARKEN, Frederick, Md.

**SINGLE COMB BROWN LEGHORNS.** Scores running from 92½ to 94½. Fine carriage, rich plumage, dark undercolor. None better. Eggs, \$1. JOHN A. KISTER, Mill Brook, Ohio.

**SINGLE COMB BROWN LEGHORNS.** C. L. Corbett's strain, bred from the prize winners at the greatest American shows. Eggs, \$2 per setting. WILLIAM CORBETT, Box 554, Watkins, N. Y.

**S. C. BROWN LEGHORNS** exclusively from America's best strains, winning at Rochester, Jan., '99, 3 firsts, 4 seconds, 2 fourths, 7 specials. Stock and eggs in season. LEONARD SWEET, Amsterdam, N. Y.

**BROOKLAND POULTRY YARDS.** Brookland, D. C., are now offering 15 Brown Leghorn eggs for \$2, and 13 Buff Plymouth Rock eggs for \$2, from winners of 51 regular, 8 special prizes, at Washington, D. C., 1899, Coatesville, Pa., Hamilton, Va., Southern Md. Fair, Marlboro, Md., and Rockville, Md., 1898. Write R. C. BOOTH, Mgr.

**S. C. WHITE LEGHORNS,** Knapp strain. Pen headed by 1st-prize bird at the big Rochester show. Eggs, \$1 per setting. C. A. HUBACHEK, 462 Jay St., Rochester, N. Y.

**BUY EGGS FROM PRIZE WINNERS** Rose Comb Buff Leghorns. The coming fowls of the 20th century, having won highest honors at the leading shows the last season. Also prize winners Buff Rocks and 'Dottes. Stamp for circular. HOME BUFF POULTRY YARD. F. S. ZWICK, Prop., Seymour, Conn.

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**CHESTNUT GROVE POULTRY YARDS** JOSIAS J. GEORGE, Proprietor. Yards at Jenkins P. O., Long Green Valley, Baltimore Co., Md. City address, 443 North Street, Baltimore, Md. Light Brahmas Exclusively. Early-hatched cockerels and pullets for sale. Cockerels, \$3 to \$5; trios, \$5 to \$8. Yard headed by cockerel 1st prize at Washington, 1897.

**CHOICE UP-TO-DATE STOCK** of Light Brahmas, the Duke of Morris strain. I have the cream of the late Stephen Spencer's stock in my yards. Stock for sale. Eggs, \$1 per 13. Satisfaction guaranteed. J. M. PORTER, Morristown, N. J.

**FOR SALE.**—Dark Brahmas, one male and three females. Fine stock. Write for particulars. Mention The Feather. A. GILLETTE, Canaan, Litchfield Co., Conn.

**LIGHT BRAHMAS.**—Bred from Cost's, and Williams' stock. Fowls and eggs for sale. Eggs, \$1 per 15. Satisfaction guaranteed. BERNARD THROCKMORTON, Snickersville, Va.

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**WYANDOTTES. GOLDEN, BUFF, AND** Partridge, McKean strain, winners at Chicago, Washington, D. C., Davenport, Iowa, Mid-Continental, Kansas and Nebraska State shows. Stock and eggs for sale. Send stamp for catalogue. W. A. DOOLITTLE, Sabetha, Kan.

**SILVER WYANDOTTES EXCLUSIVELY.**—Winners and layers; healthy, vigorous stock. Surplus all sold. Hatching now for fall sales. Tip top matings. J. M. HAMBLIN, HIGHLAWN FARM, Vienna, Fairfax Co., Va.

**SILVER WYANDOTTES.**—I have for sale 15 cockerels for \$2 to \$5; 1 cock \$3; 12 females \$1 to \$3. Satisfaction guaranteed. R. G. WILLIAMS, Barre, Mass.

**BUFF WYANDOTTES EXCLUSIVELY.** Good size, shape, and the true buff color. Fertile eggs, fifteen for \$1.50; thirty for \$2.50. Fine young stock for sale. W. P. PRATT, Chatham, N. Y.

**WHITE AND BUFF WYANDOTTES** and Black Langshans, winners of 48 prizes at Mt. Gretna, Carlisle, Hagerstown, and Pittsburg. Eggs from winners \$1.50 per 13. Stock for sale. ARMBRUST BROS., Armbrust, Pa.

**EGGS THAT WILL HATCH** from best strains White Wyandottes and Single Comb White Leghorns, \$1.50 per 15; \$5 per 100. Satisfaction guaranteed. W. E. SHOEMAKER, Laceyville, Pa.

**WHITE WYANDOTTES** at Boston, '99, in the largest and hottest competition, I won ten regular and special premiums. My birds are white, correct shape, and bred for business. Eggs, \$2 per 15. F. H. FULLER, Box D. Hiusdale, N. H.

**WHITE WYANDOTTES EXCLUSIVELY.** They have the shape, color, and are prolific layers of brown eggs. Best all-around breed. 50c per setting for the rest of the season. R. S. GLEASON, Colebrook, N. H.

**FRANK L. GARDNER,** Fitchville, Conn., breeder of prize-winning White Wyandottes "Stay White" strain. Eggs from prize matings at \$2 per 15. Incubator eggs, \$5 per 100. Satisfaction guaranteed.

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**BLACK MINORCAS EXCLUSIVELY.** (North up strain.) Fine, large, vigorous, healthy birds, bred from my Washington prize winners. Stock and eggs for sale in season, good hatch guaranteed. *THE FEATHER*, one year with egg order. E. D. CROUCH, 1013 G Street S. E., Washington, D. C.

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**G. R. WILLSON & SON.**, Rome, N. Y., originators and breeders of the Metallic-Green strain of Black Minorcas, great station and heavy weight. Also Buff Rocks, clear hackle and buff to the skin. Send for circular containing prize-winning and matings of eight grand pens. Eggs, \$2.

**BELMONT STRAIN BLACK MINORCAS** contains the best Minorca blood in the country. They are all standard weight or over, and are extra good in all other points, especially as layers. Eggs at \$1 per 13, and satisfaction guaranteed, or I will refund your money. Write me. O. W. TAYLOR, Tyrone, Blair Co., Pa.

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**BLACK LANGSHANS** and White Plymouth Rocks. Choice strains of both breeds. Eggs for hatching \$1.50 per 13. I have some fine Langshans for sale. FRANK I. AHERN, Box 51, Laurel, Md.

**BLACK LANGSHANS.**—Farm raised, strong, and healthy. Stock raised from first-prize birds at New York show. Eggs, \$1.50 per 15; \$2.50 per 30. M. HARVEY IVINS, Penn Valley, Pa.

## BANTAMS

**COCHIN BANTAMS.**—Buff, Black, and White. If you are in want of Cochins Bantams write and see what I can do for you. ROWLAND G. BUFFINTON, Box 677, Fall River, Mass.

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**B. B. R. GAME BANTAM EGGS**, \$1 per setting. Not desiring to breed any more young stock this season we will sell eggs at \$1 per setting from prize-winners at Carlisle, York, and Schoharie, New York. Golden Sebright eggs at same price. WOLFORD BROS., Props., Hanover, York Co., Pa.

**MY BREEDING YARDS** of Buff Cochins Bantams contain only carefully selected birds; even in color, heavily feathered, typical Cochins shape. Eggs, \$2 per setting. Birds for sale. C. E. ROGERS, New Market, New Jersey.

**WOODCLEFT STRAIN.**—Having purchased the entire stock of this most noted strain from Mr. C. S. Powell, I am prepared to offer eggs at only \$2 per 13, or \$3 per 26. Orders booked now. These birds are world beaters, having won at New York, Boston, and Washington. Address, L. L. LUCAS, Oil City, Pa.

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**PALACE BANTAM YARDS**, A. J. HILTON, Amsterdam, N. Y. Good birds for sale cheap. 4 Buff and 1 Black Cochins cocks and cockerel, \$1 each; 2 Golden Sebright cocks, \$1.25 each; 1 Silver Sebright cock, \$1.50; 3 B. B. Red Games, (Parker stock) cocks, \$2.50 each; 4 Black-Tailed Japanese cock and cockerels from imported stock, \$3 each. First come first served.

**LIGHT BRAHMA BANTAM EGGS.** From our famous winners at Madison Square Garden, N. Y., 1898-9, at \$5 for one setting, or two settings for \$8. Satisfaction guaranteed. GEO. W. HILLSON, America, N. Y.

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**HOUDANS AND WHITE HOLLAND TURKEYS.** High-class stock, with free range. Houdan eggs, \$1 per 13; \$3 per 40. Turkey eggs, \$2 per 11. G. A. HOBART, Chittenango, N. Y.

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**DREW**, Avon, Mass. PRO BEACH ISLAND POULTRY FARM, has for sale beautiful White and Buff Cochins. Exhibition birds, from \$5 to \$10 each. No cheap birds to sell.

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**ROYAL BLACK JAVAS.** Eggs, \$2 per 15. Still some fine stock left. Write your wants. W. W. SUTHERLAND, Bushfield, Pa.

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## ORNAMENTAL

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**AMERICAN DOMINIQUE.**—My Dominiques are well marked, good size, and bred for business, hardy, and extra winter layers. Eggs, \$1 per 15. C. E. HATCH, Matteawan, Dutchess Co., New York.

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**EGGS FOR HATCHING** from choice Pekin Ducks, \$1.50 per 12; \$7 per 100. MRS. LENA CARTER, L. Box 31, Alexandria, Va.

**PEKIN DUCKS.**—Eggs from a few large, white specimens feeding on my mill pond, McClave stock, \$1 per dozen. JOHN A. KISTER, Mill Brook, Ohio.

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**CHAMMERSCHMIDT**, S. Buffalo, N. Y., headquarters for large Belgian Hares, bred up to standard in size, color and weight. 40 breeding Bucks for sale, cheap, if taken soon, for want of room.

**NORTHWESTERN RABBITRY.** For sale. Mammoth Hares, Cavies (Guinea Pigs), Ferrets. 40 prizes at Chicago, 1899; 20 at Columbus, Ohio. Stamp for information. MRS. EDITH KINGMAN POYER, Prop., C. F. KINGMAN, Mgr., Woodstock, Ills.

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**FOR SALE, EXHIBITION BIRDS** in Pouters, Carriers, Blondinettes, Satinets, Silverettes, Turbids, Frillbacks, Swallows, Snells, Archangels, Dragons, Tumblers, Moorcaps, Magpies, Owls, Nuns, Bruner Pouters, and Black Baldhead Tumblers. Satisfaction guaranteed. J. H. MEHRING, Littlestown, Pa.

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**LARGE PIGEONS, PERFECT SQUABS.** Produced from my ideal stock of Mondaine, Runt, Dragoon, and White Homer crosses. Qualities that rival the famous "Bordeaux" Squabs. Enclose stamp for prices. J. W. WHITMORE, Quincy, Pa.

**H. CLOSE**, Dunkirk, Ind. I still have a few more finely-bred White Jacobins for sale at reasonable prices. These birds are from some of the best stock in the country. Satisfaction guaranteed.

**FOR IMMEDIATE DISPOSAL.** Lot of high-class fancy pigeons. Address at once, N. KOHL, Jr., 819 Maine Street, Quincy, Ill.

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**HOMING PIGEONS** mated for flying or squab breeding, \$1 and \$2 per pair. Books on Breeding and Training 25 cents (stamp); Money in Squabs, 20 cents; Pigeon Queries, 25 cents; Dogs, Rabbits, Cage Birds, Poultry, 10 cents each. Seamless and open aluminum leg bands, pedigree blanks and cards. Catalogues free. F. L. HOOPER, Station D, Baltimore, Md.

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**SHERWOODS**—The Ideal Fowl—for fancier, farmer, or market, the hardest and best general purpose fowl ever introduced. My stock is from originator of breed, therefore pure. Prize winners at Hamilton. Eggs in season. Circular free. DR. CHARLES E. TURNER, Snickersville, Va.

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If fed on F. P. C. Chick Manna. It is easily digested, and makes them grow, and prevents Leg Weakness and other Diseases common to little chicks. You can raise almost 100 per cent of your hatch, which you can not do if you feed anything else. Price, 1 lb. 10c.; 5 lbs. 40c.; 15 lbs. \$1.10. Order at once and save your chicks. Our new 1899 illustrated catalogue free. EXCELSIOR WIRE & POULTRY SUPPLY CO., 28 Vesey St., N. Y.

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**CHICKS TEN DOLLARS PER HUNDRED.** Extra choice yearlings, Leghorns, Wyandottes and Rocks, one to two dollars each. Prizes won at Newburgh last winter. Exhibition stock low. Write for your profit. HARRY MYER, Saugerties, N. Y.

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**\$1** \$1.50, and **\$2.** Silver and White Wyandottes, Rose Comb B. Minorcas, S. S. Hamburgs, Indian Games, Langshans, Buff, Black, and Brown Leghorns, R. C. White Leghorns, Buff Bantams. Eggs from grand matings, \$1 per 15, none better. F. H. DAVEY, Westtown, N. Y.

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**WAR ON FIRST-PRIZE EGGS.** BUFF POULTRY FARM, Norristown, Pa. Buff Cochins, Mrs. Kimmel and Oaklin's stock only. Eggs for setting of 13 \$2.50. Buff P. Rocks, Buff Wyandottes, Buff Leghorns, Buff Minorcas \$1.00 per 13. A few Buff Cochins cockerels from first-prize hen at Washington. D. C., from \$5 to \$8 each. Express or P. O. Orders to E. S. GIRARD, Box 162 Norristown, Pa.

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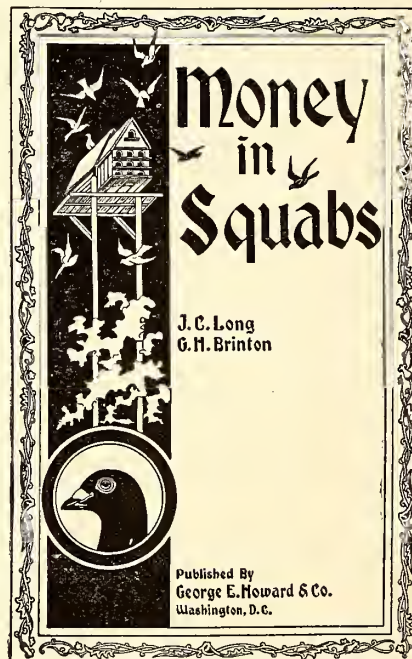
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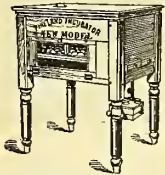
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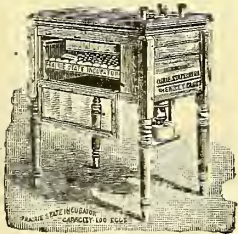
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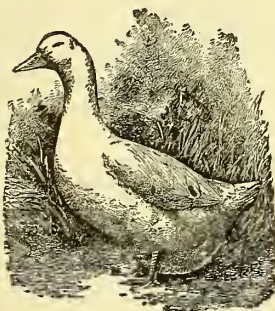
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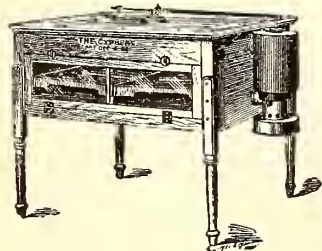
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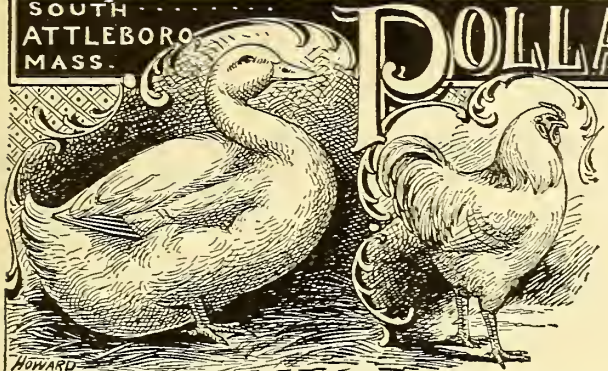
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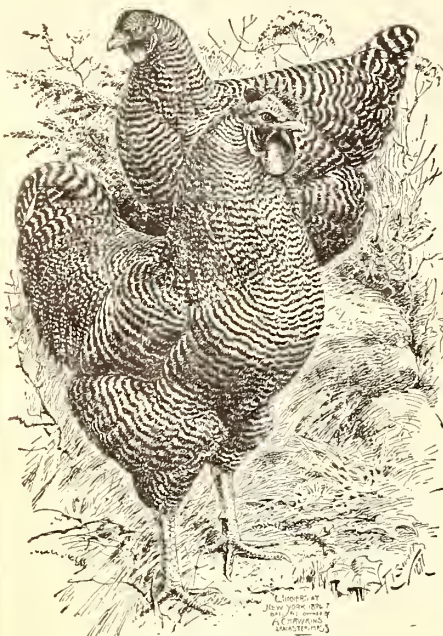
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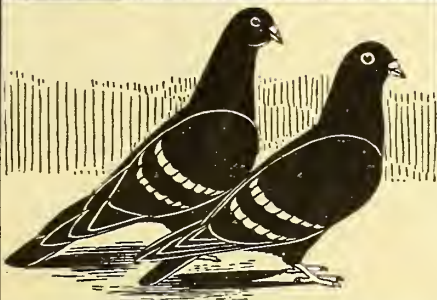


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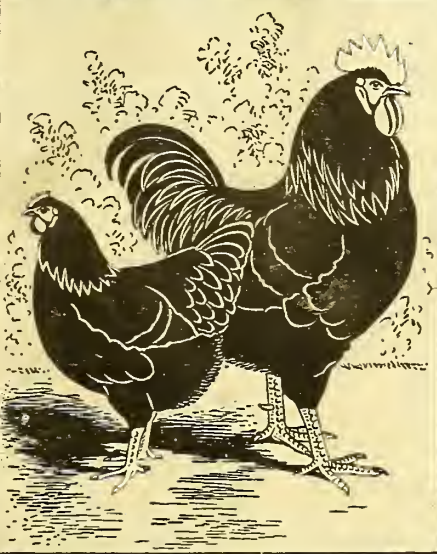


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PIGEONS



POULTRY

WASHINGTON, D. C.

Vol. IV. JULY, 1899. No. 10.

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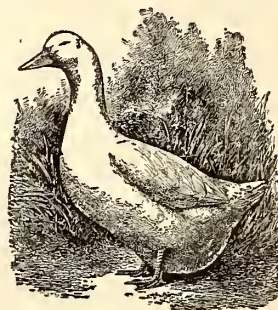
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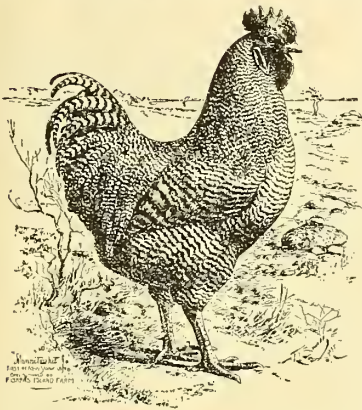
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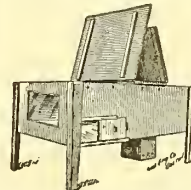
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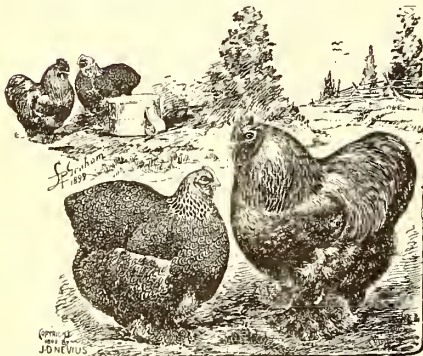
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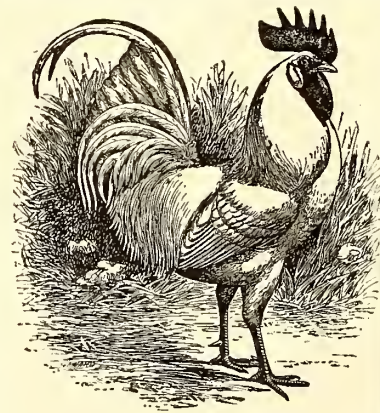
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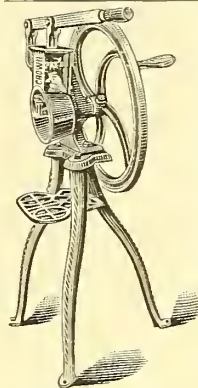
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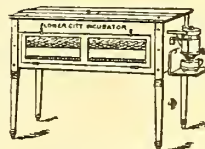
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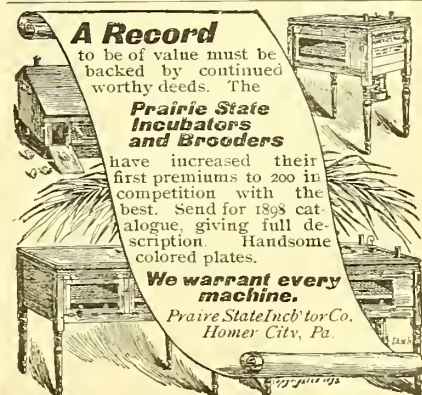
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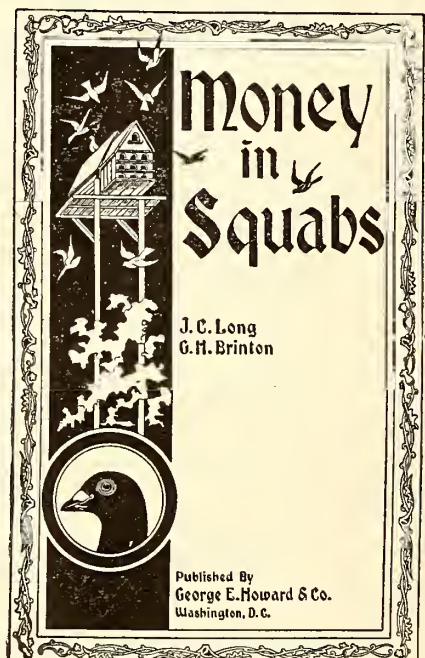
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A National Journal Devoted to Poultry, Pigeons, Birds, Etc.

VOL. IV. No. 10.

WASHINGTON, D. C., JULY, 1899.

FIVE CENTS.

## GOOSE RAISING FOR PROFIT.—I.

The Circumstances for which Geese are Usually Kept—  
Sections Where Goose Raising Pays—Surprising  
Statements Showing the Profits in the Business—  
The Popular Varieties and their Crosses.

### General Management.

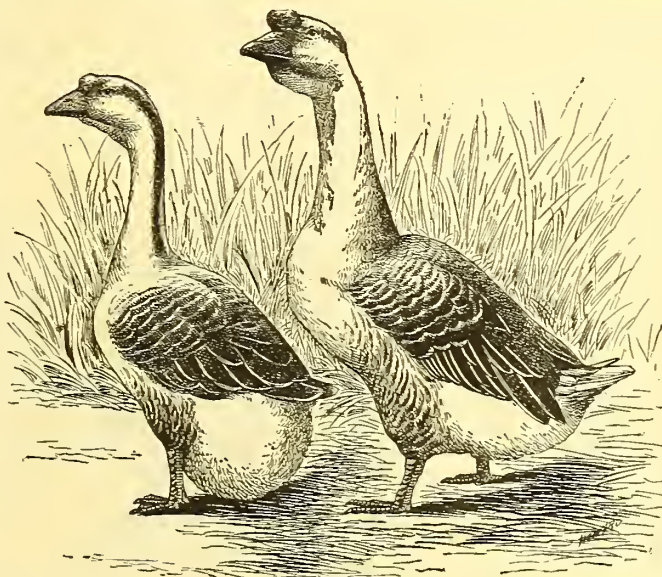
**W**HAT are geese raised for if not for profit, will be asked by some reader of our title. At first thought this appears to be a very pertinent inquiry; but when we travel over the country and see where, how, and under what circumstances geese are usually kept, we are tempted to conclude that whatever the object may be it certainly can not be profit. Some farmers keep them because they like to see them around; others because they believe in keeping as large a variety of fowls as possible; still others because they wish a few feathers for the pillows, beds, and cushions. It is only the small minority that thinks of obtaining a material income from these easily managed birds.

There are, however, sections of the country where goose raising is an established industry and yields profits that are not by any means to be despised. The New Jersey coast, Staten Island, Long Island, Connecticut, and Rhode Island appear to be favorable locations. Mr. Chas. O. Flagg writing of Rhode Island says, "Geese are very hardy, subject to no diseases and few enemies, excepting dogs and foxes, and, aside from the breeding season, require less care than cows, sheep, or hens, while the income from money invested is perhaps greater than any other farm industry can show." He states that according to the statistics for the year ending November 1, 1895, there were 3,909 breeding

geese in the State, at the beginning of the year, valued at \$7,141.35, an average of \$1.82 each. From these, there were raised 22,257 goslings, valued at \$26,039.50, an average of \$1.17. There were 987 pounds of feathers sold, for 42.3 cents per pound, amounting to \$418.20. The total value of goslings and feathers was \$26,457.70, making average return of \$6.76 for each breeding bird kept. Considering that this is the average for a whole State, that it probably does not include a considerable part of the feathers produced, and all must admit that it is a most remarkable showing. In addition to these returns from sales, there were on hand on November 1, 1895, 4,811 breeding geese valued at \$8,790.85; that is, the breeding stock had been increased by 902 head and the value by \$1,648.65. Taking this increase into account the total returns equalled \$7.19 per head of breeding stock.

After reading this summary of the goose statistics

we are not surprised at the statement that the income per goose was probably higher than the income per sheep for the same year. One goose breeder raised, one season, from four pairs of geese, 61 mongrels which sold for \$149. Another season he had 37 sheep, ewes, from which 37 lambs were raised and sold at \$5 each. The same season 10 geese paid better and ate less. He quotes from Rankin as follows: "I am going to tell you of one experiment I made with a pair of African Geese. I let them run separately, fed liberally, to see the best they could do. The goose laid 51 eggs, and I only succeeded in getting 37

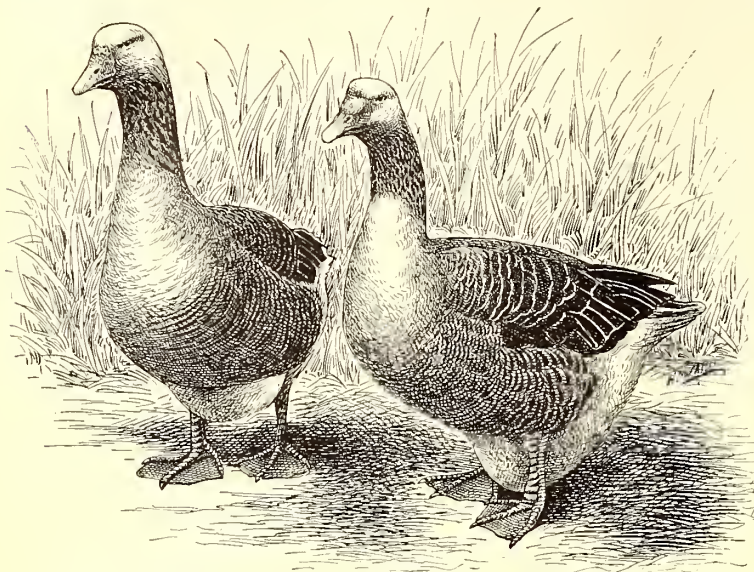


AFRICAN GEESSE.

goslings. A horse got loose and killed one, and one died, leaving me 35 for market. I sold them \* \* \* for \$81.47; so one goose gave me more profit than a cow and two hogs. Yet, I did not feel satisfied with my hatch, which was under the average. One of my neighbors beat me."

One firm in Rhode Island, according to Mr. Samuel Cushman, raised in one year 1,000 goslings from 97 female geese. This was not done by the aid of an ex-





TOULOUSE GEESSE.

pensive plant or with incubators; neither were many buildings nor fixtures necessary. The goslings were disposed of alive when from six to eight weeks old. For the first 200 sold in June, they received \$1.25 each, while the remainder sold later brought \$1 each. The average price received for goslings alive, each season, has ranged from \$1.09 to \$1.17 at five or six weeks of age.

The facts produced seem to warrant the conclusion that geese are more profitable than any other kind of fowls, but that they can not successfully be raised in such numbers as is possible with chickens and ducks.

#### VARIETIES RAISED.

The most popular varieties of geese are the Toulouse, African, and Embden. The common geese of the country are of no particular breed, having descended from those brought over by the early settlers, which have been crossed with each other, and during recent years with the improved breeds, until they are no longer of a special type, if they ever have been.

The Toulouse variety of geese originated in the vicinity of Toulouse, France, where they are extensively bred. These birds are large, compactly built, and great layers. They are quieter, are not great rambles, fly little, and do without much water. On the other hand, they mature somewhat slowly, their flesh is a trifle coarse, and they are not so highly prized by some for table purposes as are the African Geese, or the mongrel produced by crossing the African goose with the Canada gander. They are gray in color and well suited for the Thanksgiving and Christmas trade.

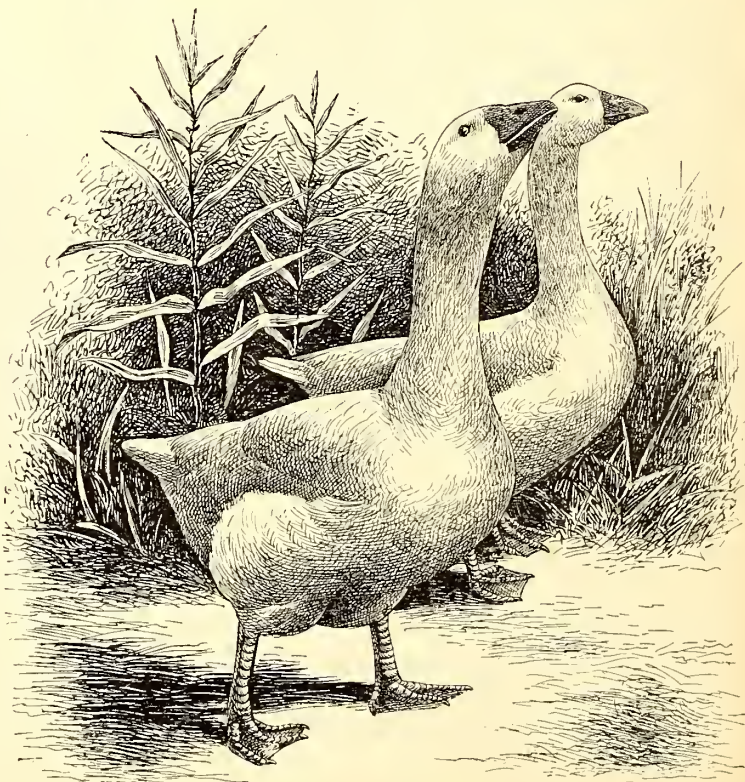
The African is one of the largest varieties, is gray in color, a good layer, matures early, is vigorous and hardy, and the young are so strong that very few fail to reach maturity. The flesh is excellent and they are among the best layers. Mr. Rankin says his Africans have averaged more eggs than any other variety. Their productiveness has been greatly increased in recent years. Thirty years ago he rarely had a bird that laid over thirty eggs; now they lay sixty and occasionally more. They are quiet and easily managed.

The Embdens are large, fine-looking birds, originally imported from Germany. They received their name from the city of Embden near which the variety is supposed to have originated. They are not quite as good layers as the Toulouse and African, though much depends upon the breeding and selection of the flocks, some strains of the Embden surpassing some strains of the Toulouse and African. In general they lay earlier than the Toulouse, their eggs are heavier, they are much more persistent sitters and make excellent mothers. The pure white color of this variety makes it a desirable one to use where the young are marketed as "green geese," since the carcasses possess a far better appearance than can be secured with the dark-colored birds.

Some breeders prefer to raise cross-bred geese for market purposes. It is believed that such birds grow more rapidly, mature earlier, become larger, and have finer and better flavored flesh than the pure breeds.

Wright preferred the cross of a Toulouse male on Embden females; others prefer Embden males and Toulouse females. The Embden-African cross is also a very desirable one. The Embden is generally used for one parent because of its white color, as it is found that the larger part of the offspring resemble it quite closely in this respect, and consequently make a better appearance on the table, especially when killed young.

The cross of the wild or Canada gander on African or Toulouse geese produces the "mongrel," sometimes called "wild mongrel," which is considered by many almost equal to the canvas back duck. The Canada-African cross appears to have given the best results. The progeny of this cross resembles the wild goose very much in color and general appearance. They are raised almost entirely for the Thanksgiving



EMBDEN GEESSE.



and Christmas markets.

Cross-bred stock while often surpassing either of the parent breeds in vigor, rapidity of growth, and size, should not be preserved for breeding purposes. There is a great temptation to do this on account of the excellence of the individuals; but the experience of many years and of all countries with all kinds of animals, has shown that the progeny of cross-bred animals is inferior to the parents, that it varies remarkably in size, color, and form, and is in every way undesirable. For those who wish to produce the finest table birds, one of the crosses above mentioned is worthy of consideration. It may be admitted that cross-breeding with poultry is not a popular method in this country. This is not because the offspring are disappointing, if the cross is judiciously made, but because of the necessity with chickens of continually breeding the pure birds in order to obtain material for the crosses. That is, with common fowls the breeding stock must be renewed every two or three years, and, consequently, it is necessary to keep the two pure breeds for crossing or to purchase frequently at considerable trouble and expense. This objection largely disappears when geese are to be considered, as the breeding stock does not need to be renewed in most cases for a dozen years or longer. And while with most breeds young ganders should be introduced every six or seven years, even this is not a serious objection.

#### GENERAL MANAGEMENT.

Geese require considerable range, they are great grass-eaters, and as this is the cheapest kind of food they should be provided with a good pasture. There is much land on farms that is wet or cut up with water courses or so rolling as to be of little value for cultivation that may be profitably utilized for the production of geese. They are hardy, vigorous birds and require only the simplest and most inexpensive kinds of shelters. An open shed, a cellar, or a pole shelter covered with straw and having dry straw bedding is sufficient. Ponds or streams of water are not required except for the wild or Canada Goose. For others, the water may be supplied in tubs, barrels, or troughs sunk into the ground.

As a rule, a flock of geese may be easily kept in an enclosure by a fence that is tight at the bottom, since they are more likely to crawl through than to fly over. The improved breeds are, moreover, very quiet and easily controlled.

#### MATING.

It goes without saying that the breeder must get his geese before he can mate them. Having selected the kind of stock he desires from good strains of blood, he will be wise if he takes his males and females from different flocks that are not related. On account of the long life of these birds great care should be given to the selection of the original stock. There is a great difference in the egg production of different flocks of the same variety, and as the number of eggs laid governs the profitableness of a flock, it is possible to make a fatal mistake at this stage of the proceedings.

In breeding African, Toulouse, or Embden Geese, two females are allowed for each male; while for breeding "mongrel" geese, a Canada male must be provided for each female. The geese should be obtained and mated in the fall or not later than December, if the best results are expected. Usually they will not do as well the first year as after they have become accustomed to their surroundings and feel at home.—S. E. D.

## POULTRY EXPERIMENTS.—III.

Foods for Laying Hens—The Winter Experiment—  
Foods Consumed, Narrow v. Wide Ration—Average  
Weight of the Fowls—The Number of Eggs per  
Month—The Summer Experiment.

#### Narrow v. Wide Ration for Egg-production.

THE experiments coming under this head have been two, one extending from December 12 to April 30, the other from May 1 to October 4. The object in view was to test the correctness of the generally held opinion that the food of the laying hen must be very rich in nitrogenous constituents. As we have carried out the experiment, it amounts to a substitution of cornmeal for wheat middlings and gluten feed in the morning mash, and the replacement of about one-half of the oats and the wheat fed at night with the corn. The proportions of cut clover and of animal meal have remained the same in the two rations.

The health of the fowls on both rations has been uniformly good throughout both the winter and summer test, with a single exception,—the loss of one fowl from the effects of indigestion,—on the wide ration. It was found to require the exercise of more judgment in feeding to keep the fowls on the heavier corn ration in perfect condition. They were more easily overfed, and on two or three occasions lost appetite for their feed for short periods.

#### The Winter Experiment.

On December 12 the pullets, 19 in each lot, weighed as follows: Narrow ration, 101.75 pounds; wide ration, 102.5 pounds. The first lot had laid, November 12 to December 12, 127 eggs; the other lot, 85 eggs, and one in this lot was broody. The foods consumed during the winter experiment and other details are shown in the following table:—

#### Foods Consumed, Narrow v. Wide Ration (December 12 to April 30).

| KINDS OF FOOD.   | Narrow Ration. |     | Wide Ration. |     |
|------------------|----------------|-----|--------------|-----|
|                  | Lbs.           | Oz. | Lbs.         | Oz. |
| Wheat.....       | 257            | 0   | 126          | 0   |
| Oats.....        | 147            | 0   | 63           | 0   |
| Bran.....        | 43             | 0   | 39           | 0   |
| Middlings.....   | 43             | 0   | —            | —   |
| Gluten feed..... | 43             | 0   | —            | —   |
| Animal meal..... | 43             | 0   | 39           | 0   |
| Clover.....      | 44             | 0   | 39           | 0   |
| Cornmeal.....    | —              | —   | 108          | 0   |
| Corn.....        | —              | —   | 136          | 0   |
| Cabbage.....     | 18             | 5   | 16           | 5   |

#### Average Weight of the Fowls (Pounds).

| DATES.           | Narrow Ration. |     | Wide Ration. |     |
|------------------|----------------|-----|--------------|-----|
|                  | Lbs.           | Oz. | Lbs.         | Oz. |
| December 12..... | 5.36           |     | 5.39         |     |
| January 31.....  | 5.41           |     | 5.84         |     |
| February 25..... | 5.45           |     | 5.80         |     |
| March 30.....    | 5.16           |     | 5.57         |     |
| April 30.....    | 5.17           |     | 5.31         |     |



*Number of Eggs per Month, Narrow v. Wide Ration,  
Winter Test.*

| MONTHS.                 | Narrow<br>Ration. | Wide<br>Ration. |
|-------------------------|-------------------|-----------------|
| December 12 to 31 ..... | 94                | 89              |
| January .....           | 99                | 148             |
| February .....          | 147               | 258             |
| March .....             | 310               | 317             |
| April .....             | 210               | 259             |
| Totals .....            | 860               | 1,071           |

*Narrow v. Wide Ration for Egg-production,  
Winter Test.*

|                                                | Narrow<br>Ration. | Wide<br>Ration. |
|------------------------------------------------|-------------------|-----------------|
| Hen days .....                                 | 2,529             | 2,538           |
| Gross cost of foods .....                      | \$8 54            | \$6 56          |
| Cost per hen day .....                         | \$0 0033          | \$0 0026        |
| Total number of eggs .....                     | 860               | 1,071           |
| Cost per egg .....                             | \$0 0099          | \$0 0061        |
| Eggs per hen day .....                         | .34—              | .42+            |
| Total weight of eggs (pounds) .....            | 102.425           | 130.53—         |
| Average weight of egg (ounces) .....           | 1.98              | 1.95            |
| Dry matter to produce 1 egg (pounds) .....     | .655              | .46             |
| Dry matter consumed per hen day (pounds) ..... | .22               | .19             |
| Nutritive ratio .....                          | 1:4.7—            | 1:5.6—          |
| Number of sitters .....                        | 30                | 24              |

*Summer Experiment.*

The summer experiment was continued with the same fowls that had been used in the winter. The method of feeding remained the same, save in two particulars: (1) In place of cut clover rowen in the mash every morning, lawn clippings in such quantity as the fowls would eat before wilting were fed three times per week, to each lot the same; and (2) the feeding of cabbages was discontinued. The yards (fifty by twenty-four feet) were kept fresh by frequent use of the cultivator. The health of one fowl only suffered during the experiment. One of the corn-fed fowls appeared dumpy for a few days, but was fully recovered in two weeks. As in the winter test, the fowls fed largely on corn showed less relish for their whole grain than the others. Food consumed and other details are shown below:—

*Foods Consumed, Narrow v. Wide Ration  
(May 1 to October 4).*

| KINDS OF FOOD.    | Narrow<br>Ration. | Wide<br>Ration. |
|-------------------|-------------------|-----------------|
|                   | Lbs.              | Lbs.            |
| Wheat .....       | 276               | 131½            |
| Oats .....        | 97                | 43              |
| Bran .....        | 43                | 40              |
| Middlings .....   | 43                | —               |
| Animal meal ..... | 43                | 40              |
| Cornmeal .....    | —                 | 106½            |
| Corn .....        | —                 | 217½            |
| Gluten feed ..... | 43                | 16              |

*Average Weight of the Fowls (Pounds).*

| DATES.               | Narrow<br>Ration. | Wide<br>Ration. |
|----------------------|-------------------|-----------------|
| April 30 .....       | 5.17              | 5.31            |
| June 11 .....        | 5.00              | 5.25            |
| July 16 .....        | 5.47              | 5.22            |
| August 11 .....      | 5.05              | 5.50            |
| Before killing ..... | 5.07              | 5.44            |
| Dressed .....        | 4.37*             | 4.81†           |

\* Or 86 per cent.

† Or 88 per cent.

*Eggs per Month (Number).*

| MONTHS.               | Narrow<br>Ration. | Wide<br>Ration. |
|-----------------------|-------------------|-----------------|
| May .....             | 216               | 292             |
| June .....            | 182               | 204             |
| July .....            | 157               | 210             |
| August .....          | 151               | 197             |
| September .....       | 139               | 174             |
| October 1 to 14 ..... | 14                | 18              |
| Totals .....          | 859               | 1,095           |

*Narrow v. Wide Ration for Egg-production,  
Summer Test.*

|                                                | Narrow<br>Ration. | Wide<br>Ration. |
|------------------------------------------------|-------------------|-----------------|
| Hen days .....                                 | 2,355             | 2,512           |
| Gross cost .....                               | \$7 56            | \$6 64          |
| Cost per hen day .....                         | \$0 0032          | \$0 0026        |
| Total number of eggs .....                     | 859               | 1,095           |
| Cost per egg .....                             | \$0 0088          | \$0 0061        |
| Eggs per hen day .....                         | .36               | .44             |
| Total weight of eggs (pounds) .....            | 106.3             | 130             |
| Average weight of eggs (ounces) .....          | 1.98              | 1.90            |
| Dry matter to produce one egg (pounds) .....   | .57+              | .48+            |
| Dry matter consumed per hen day (pounds) ..... | .21—              | .21+            |
| Sitters .....                                  | 67                | 60              |

The fowls on the wide (corn) ration laid three soft-shelled eggs during the winter test and one during the summer. These are not included in the tabular reports.

Study of the results reveals the following facts:

1. The hens on the wide (rich in corn) ration laid a great many more eggs in both the winter and in the summer experiments than those on the narrower ration.

2. The difference in favor of the wide ration amounts to 25 per cent in the winter trial and to 33 ⅓ per cent in the summer trial, upon the basis of equal number of hen days.

3. The total cost of feeds was less for the wide ration, and, of course, the cost per egg was much less. In the production of one hundred dozen eggs the saving on the basis of our winter test would amount to \$4.56; on the basis of the summer test, to \$3.24.

4. In average weight of the eggs produced there is a small difference in favor of the narrow ration; but in quality the weight of family evidence shows the eggs produced by the corn-fed hens to have been somewhat superior. They were deeper yellow and of a milder flavor than the eggs from the narrower ration.

5. The fowls on the wide ration gained somewhat in weight and were heavier at the close of the experiment than the others, notwithstanding the much larger number of eggs laid.

At the close of the experiment the fowls were closely judged as to the condition of the plumage while still living, and it was decided that the corn-fed hens were farther advanced in molting than the others. The fowls were slaughtered, and the judgment of the men removing the feathers coincided with the judgment on the living fowls.

The averages before and after dressing were as follows: Narrow-ration fowls, 5.07 pounds; dressed weight, 4.37 pounds; wide-ration fowls, 5.44 pounds; dressed weight, 4.81 pounds. The narrow-ration fowls gave 86 per cent dressed weight; the others, 88 per cent. The dressed fowls were judged by a market expert, who pronounced the corn-fed fowls slightly superior to the others.

The results are thus greatly in favor of the ration richer in cornmeal and corn; and so important will a



knowledge of this fact prove (if confirmed by further trials), because of the cheapness of these foods as compared with wheat, that the experiment is being repeated this year with three different breeds of fowls, using corn yet more largely than last year.—*Report of the Massachusetts Agricultural College.*

## DISEASES OF POULTRY.

For many years, the great source of discouragement to the poultry raiser has been the diseases which have appeared in his flock only too frequently, and which have been mysterious alike in their nature and origin. The greatest experience, the most careful management and the most salubrious locations have failed to bring immunity from such losses. They have developed when least expected, carrying off the finest breeding stock or the most promising youngsters, destroying all business calculations and sometimes bringing utter ruin and despair.

Our shrewdest and best informed breeders have long studied this problem, and have been able, to a certain extent, through hygienic measures, to guard against diseases. The matter has been a most difficult one for them, however, because, if there is one subject which more than another is obscure and incomprehensible to the layman that subject is certainly disease and the principles according to which it is treated.

Some rays of light have been thrown into this obscurity, from time to time, by the writings of physicians and veterinarians; but these have been fragmentary and the authors have too evidently lacked acquaintance with the literature of the subject, and the scientific investigations of recent years. There has been no book, however, especially in English, to which the inquirer could turn for a reliable statement of the present condition of knowledge with reference to poultry diseases and their treatment.

Under these circumstances, the appearance of a brief but comprehensive treatise on the diseases of poultry by Dr. D. E. Salmon, who, as is well known, has devoted his life to the study and investigation of the diseases of animals, is an event which will be welcomed by every one engaged in the poultry industry.

Dr. Salmon has produced a book of 248 pages, with 72 illustrations, which greatly facilitates the understanding of the subject. A volume of such size, upon which so much expense is put in the way of illustrations, fine paper, and careful presswork is usually sold for one dollar, but the publishers have decided to offer this book at the popular price of fifty cents in order to put it within the reach of all who need it.

The author in the introductory chapter tells of the magnitude of the poultry industry in the United States, and then explains what constitutes the difference between health and disease; he enumerates the different apparatus or sets of organs in birds and points out what each set of organs does in health. The common causes of disease are explained, the hygienic requirements are mentioned, there is a valuable summary of the methods of disinfection and a clear statement of the principles of medical treatment.

After giving the reader this insight into the subject, the diseases of each set of organs are taken up and treated systematically, including the results of the most recent investigations, all of which is given in language which any intelligent person can understand. The second chapter treats of the diseases of the organs

of respiration, including catarrh, roup, bronchitis, gapes, congestion of the lungs, pneumonia, aspergillosis, and the air-sac mite. The third and fourth chapters cover the diseases of the organs of digestion. The fifth chapter discusses the diseases of the peritoneum, liver, and spleen.

The sixth chapter will be found one of the most original and valuable articles in the volume, as it describes the structure and workings of the organs of urination and reproduction, as well as the diseases of these parts. This has heretofore been a subject that was but little understood. The illustrations and explanations of the various organs will bring many new ideas to the reader and enable him to understand things which have been incomprehensible. It is doubtful if there can elsewhere be found so clear a statement of the structure and production of the egg and the abnormal changes which may occur in its development.

Chapter seven treats of the diseases of the brain; chapter eight takes up the heart and blood vessels. The article on the parasites and diseases of the skin, which constitutes chapter nine, is of the greatest interest throughout and represents a vast amount of labor and research on the part of the author. It contains a list of all these parasites classified according to their effects and giving their scientific and popular names. The sections relating to scabies, favus, and chicken pox or sore head will prove invaluable to the poultrymen of all sections, but particularly those of the South.

The diseases of the feet and legs are included in chapter ten. Those sections which will be read with most interest treat of leg weakness, rheumatism, deep bruises and abscesses, and scabies of the feet or scaly legs.

The chapter which will be most helpful is, no doubt, the one entitled "Infectious Diseases Having a Tendency to Affect More than One Set of Organs." This treats exhaustively of tuberculosis, diphtheria, infectious leukæmia and fowl cholera, giving the latest information. These plagues of the poultry-yard are responsible for the greater part of the losses which occur from disease, and the reader will find here the only connected scientific account of them which has been written. Chapter twelve, which concludes the book, discusses the injurious habits or vices, and many will obtain hints from it which will be of much service.

This book should be in the hands of every person who owns poultry. It will be referred to constantly and will prove an unfailing guide in the hygienic management of poultry and in the handling of disease. No one will make a mistake in ordering this book at once.

## EXERCISE.

Fowls must have exercise when confined. To provide this, scatter the grain food in the litter on the floor and force them to keep constantly at work scratching for it. This will insure a free circulation and perfect digestion.

## Money Returned.

If anyone who wants a book on Diseases of Poultry is not satisfied with Dr. Salmon's great book, after he has examined it, we will cheerfully refund the purchase money. Price only 50 cents postpaid. GEORGE E. HOWARD & CO., Publishers, S. W. Cor. 8th and H Streets N. W., Washington, D. C.



# The Feather, Washington, D. C.

Published the 15th of each Month by  
GEORGE E. HOWARD & CO.

Subscription 50 cents a Year in Advance.  
Foreign Subscriptions, 75c a year in Advance.  
Single Copies 5 cents.

## ADVERTISING RATES.

Advertising rates per insertion 15 cents a line, agate measure, 14 lines to an inch. Discount card on application.

GEORGE E. HOWARD, Editor.

All matter intended for publication should reach us by the first of the month preceding the issue in which the same is to appear.

Write your name in full, giving full post office address plainly, so there will be no mistakes.

When writing for publication use only one side of paper. Brevity is the soul of wit.

## Advertising in The Feather.

The Feather now offers the best and cheapest advertising in the country. Its circulation has increased more than one hundred per cent. during the last year. Its advertising rates are lower than those of any other journal of equal standing and circulation.

The Feather reaches the people that transact the poultry and pigeon business of the country. Its publishers have made a special effort to include among its readers all the most successful and most enterprising fanciers. Advertisers are often astonished by the large amount of business which comes to them after running their card a few months. There is no other medium which reaches so large a proportion of readers in all sections of the country who are able and willing to buy when they learn who are offering the stock or supplies which they need.

No advertisement will be inserted at any price from persons who are not responsible or who fail to deal honestly with their patrons. We particularly request our readers to notify us of any advertisers whom they believe to be dishonest or fraudulent. Honest advertisers will be protected—dishonest ones will be denounced.

New advertisements must be received not later than the 1st of the month. Copy for change of advertisement must be received not later than the 25th of the month preceding.

Remittances should be made by postal money order, registered letter, bank draft, or express money order.

All remittances should be made payable to

GEORGE E. HOWARD & CO.,  
S. W. Cor. 8th and H Streets, N. W.,  
Washington, D. C.

Entered at the Post Office at Washington, D. C. as second-class matter.

JULY, 1899.

**ADVERTISERS** Must have copy in for change of advertisement not later than the 25th of the month preceding. Copy for new ads must be received by the 1st of the month to insure insertion.

**TO SUBSCRIBERS.** When a subscriber finds this item marked with an X in blue pencil, he will understand that his subscription has expired, and that he should renew promptly before the next issue is published. We invariably discontinue sending THE FEATHER when the time runs out, unless other arrangements have previously been made. Subscribers should renew promptly, because it is impossible for us to supply back numbers of THE FEATHER, neither can we guarantee to begin subscription with any other than current issue. Renewal subscriptions are entitled to the privileges of the special offers and combinations as published in our columns.

**Successful Business.** The business season just closed has been the most active and prosperous of many years for the poultry industry. This was predicted a year ago by THE FEATHER, and those breeders who accepted the advice then given, and who made themselves known to the multitude that read this journal, have almost without exception surpassed their expectations. Many of these breeders have written us the most enthusiastic accounts of their business operations. Some have in this one season made up for all that was lacking in the years of depression through which the country

has so recently passed. This is very pleasant for us all, and is besides an incontestable demonstration of the power of THE FEATHER to bring business to those who advertise in its columns.

Now, we are going to indulge in a little more forecasting, and we ask the reader to make a note of this, and tell us a year hence if we are not correct. The coming season is going to be more active, more prosperous, and more successful in every way than the one which has just closed. Everything indicates that the poultry people have money, and that they are going to circulate it in a most liberal manner. They are not going to throw money away, but they will increase their flocks, add to their plants, and push their business at a lively gait. Those who wish to buy will make quick purchases, and those who wish to sell will be ready to do business when the season opens, and will wish before spring comes that they had provided themselves with a larger stock.

While we can confidently predict in regard to the season of 1899 and 1900, no man can foresee what may happen before the season of 1900 and 1901 is reached. Remember that in the fall of 1900 there will be a presidential election, with an exciting campaign and the inevitable disarrangement of business. The wise man will make the most out of this opportunity which is now within his reach. Prepare for business and rush it along while everyone is inclined to do business. That is the only conclusion which an intelligent business man can reach.

To those who intend to follow the course which has just been suggested, the advertising columns of THE FEATHER will be the best means of accomplishing the object. A display advertisement commenced in August or September and continued through the year has seldom failed to bring good business and plenty of it. Advertising is the only way in which the seller can make known what he has to offer, and it is likewise through the advertising columns alone that the buyer can learn who is offering the birds or the appliances which he wishes to buy. Every successful business man must, therefore, advertise. How shall he advertise to get the best results?

There are a number of points which the advertiser should consider. In the first place, is the paper he has selected a good advertising medium, and is the space worth what is asked for it? Look at THE FEATHER and judge from its appearance whether it circulates among a good class of people. Is the paper good? Is the printing good? Does it look as though it were published for people who know what a good paper is? Is its reading matter elementary and amateurish, or does it show that it is prepared for the most intelligent class of readers? Many of our advertisers write that they get more for their money from THE FEATHER than from any other paper. It will give better results the coming season than ever before. Its paid circulation has doubled within a year, and arrangements have just been completed which will greatly increase and probably again double the list of subscribers within the next year. This all counts to the benefit of the advertiser.

Again, consider the character of the advertisers in THE FEATHER. You will find the business notices of the

leaders of the poultry industry in this country. If there is one unworthy advertiser patronizing our columns we do not know it, and should be glad to have him pointed out. There is no danger of getting in bad company here. Our readers have not been swindled until they are afraid to order anything, but they accept the appearance of an advertisement in these columns as a recommendation for the advertiser.

In the second place, how much space should the advertiser use? That, of course, depends partly upon the amount of business which he wishes to transact. Even a classified advertisement of thirty words often sells all the stock which a small breeder has; but a display card of from one inch to a column is correspondingly better. This should be judiciously worded, and may be expected to bring business in proportion to the space and the demand for the thing advertised. Rates of advertising in THE FEATHER have always been low. They have never been advanced in proportion to the increase in circulation. The advance this year is insignificant, and we are now charging *just half the price per line* which is demanded by other first-class poultry and agricultural papers. This should be borne in mind.

In the third place, when should the advertisement begin? The sooner, the better. The buyers are now scanning the advertising columns to decide upon those from whom they will purchase. They may not order this month or next, but their minds will, in many cases, be made up and no longer subject to influence. This should be remembered. A late advertisement may bring good returns, but other things being equal, it is the regular advertiser whose card runs summer and winter that gets the order.

## THE FEATHER ART PORTFOLIO

Contains six beautiful pictures in natural colors and tinted half-tones. These are works of art and are unexcelled for naturalness and artistic effects. They are praised highly by all who have seen them. These pictures are printed on the best enamelled paper, and are suitable for framing. They should be in the homes of all lovers of poultry. This set of pictures is as follows:

1. Barred Plymouth Rock Male.
2. Light Brahmas.
3. Black Langshans.
4. White Wyandottes.
5. Buff Leghorns.
6. Black Minorca Male.

We will send the complete set of six pictures as above, mailed flat to any address in the United States on receipt of fifty cents.

## OUR LIBERAL OFFER.

To everyone who sends us 50 cents to pay for one year's subscription to THE FEATHER, we will send absolutely free the complete set of six pictures as listed above. This is a grand chance to get free the best and most artistic collection of pictures yet published. Send us 50 cents and we will send THE FEATHER to your address for one year, and also the above set of pictures. If you are a subscriber you can have your subscription extended for one year, and we will send the pictures to your address on receipt of 50 cents. Make all remittances payable to

GEORGE E. HOWARD & CO.,  
S. W. Cor. 8th and H Sts. N. W., Wash., D. C.









SUPPLEMENT TO THE FEATHER.  
JULY, 1899.

COPYRIGHTED AND PRINTED, 1899, BY  
GEORGE E. HOWARD & CO.

SINGLE COMB BROWN LEGHORN MALE.



In the fourth place, the advertiser should place his advertising by the year, if he has sufficient stock to justify it. This course is better for both advertiser and publisher. The former gets lower rates, and the latter avoids frequent changes of the forms and can make better calculations as to the size of paper which he must run. Besides, an advertisement seen in every issue for a year becomes as familiar as household words. The reader sees that it is the announcement of a permanent, reliable business, and buys with less hesitation than from others who, while perhaps equally responsible, are heard from so seldom that they appear to him as strangers.

We offer these few suggestions as appropriate to the season, and while we shall be glad to do business with all of our old patrons, our object is rather to raise our advertising to a still higher plane, if possible, than to increase our advertising pages. THE FEATHER has been liberally patronized, as any one can see by consulting a file covering the last two years. We prefer now to develop the reading pages, but we shall nevertheless try to make the advertising as helpful as possible to our readers, and profitable to those who advertise.

\* \* \*  
We regretted exceedingly that we were compelled at the last moment to omit the usual supplement to the June number of THE FEATHER. Our offices were overtaxed at that time with some especial and important work, and it was impossible for us to issue the supplement without delaying THE FEATHER for a week or ten days, so thought it best to omit the supplement for that month. The Brown Leghorn male supplement which accompanies this issue is the seventh of our series of artistic illustrations. This drawing is based on a very fine specimen of this variety of fowls, and is given as a typical male of these popular and much-thought-of birds.

\* \* \*  
Considerable enthusiasm is being manifested by breeders for the coming show season. Last year the display of poultry and pigeons in the various show-rooms was a revelation to all, and the fine quality of the individual specimens was a marked improvement over previous years. If the same ratio of improvement is maintained the coming season, we may confidently look for great things. A few years ago the competition was not nearly so strong as at present, and the character of the birds, as a whole, was inferior to that of the birds that now occupy the pens. Science and skill have brought about great changes in the breeding of thoroughbred poultry, and have set the standard higher and created keener competition than was imagined by the most enthusiastic breeder and exhibitor. A certain prominent breeder expressed the situation correctly when he said that "the birds which won in the average winter show five years ago, would hardly be placed in awards at the present fall fairs."

Dr. Salmon's great book "Diseases of Poultry," now ready. 248 pages. 72 illustrations. You can not afford to be without this valuable book. Price, 50 cents postpaid.

NOW READY! 

The Only Reliable, Practical, and Authentic  
Up-to-date Work Published

ON THE

# DISEASES OF POULTRY,

—BY

D. E. SALMON, D. V. M.

Chief of the U. S. Bureau of Animal Industry, Dean of the Veterinary College of the Columbian University, Honorary Associate of the Royal College of Veterinary Surgeons, Ex-President of the U. S. Veterinary Medical Association, Fellow of the American Association for the Advancement of Science, &c.

The only modern book on this subject in the English language.  
The only illustrated book on poultry diseases.  
The only systematic and thorough book.  
Every poultry keeper needs it, and will save money by having it.

## READ THE CONTENTS:

### CHAPTER I. INTRODUCTION.

The Poultry Industry—Health and Disease—The Organs and Apparatus and their Functions—Common Causes of Disease—Hygienic Requirements—Disinfection—Objects of Medical Treatment.

### CHAPTER II. DISEASES OF THE ORGANS OF RESPIRATION.

Structure and Function—Simple Catarrh—Roup, Contagious Catarrh—Bronchitis—The Gape—Vermineous Tracheo-Bronchitis, Syngamosis—Congestion of the Lungs, Pulmonary Congestions, Pneumonia—Mycosis of the Air Passages, Aspergillosis—The Air Sac Mite.

### CHAPTER III. DISEASES OF THE ORGANS OF DIGESTION.

General Remarks Concerning the Digestive Organs—Obstruction of the Beak—Inflammation of the Mucous Membrane of the Mouth, Pip, Catarrhal Stomatitis—Thrush, Aphthæ—Diphtheria—Psorospermiosis—Aspergillus—Croupous Angina—Obstruction of the Pharynx—Catarrh or Inflammation of the Crop—Paralysis of the Crop, Impacted Crop, Obstructed Crop—Abnormal Appetite, Aberration of the Appetite, Catarrh of the Proventriculus, Inflammation of the Stomach, Gastritis.

### CHAPTER IV. DISEASES OF THE ORGANS OF DIGESTION. (Continued).

Gastro-Intestinal Catarrh, Simple Diarrhea, Gastro-Enteritis, Enteritis—Constipation, Intestinal Obstruction—Toxic Gastro-Enteritis—Bacterial Enteritis—Asthenia, Going Light—Psorospermic Enteritis—Infectious Enterio-Hepatitis of Turkeys, Black Head—Parasitic Worms Which Infest the Digestive Apparatus—The Nodular Tæniasis of Fowls.

### CHAPTER V. DISEASES OF THE PERITONEUM, LIVER, AND SPLEEN.

Peritonitis, Inflammation of the Peritoneum—Chronic Peritonitis, Ascites, Abdominal Dropsy—Diseases of the Liver—Congestion of the Liver—Inflammation of the Liver, Hepatitis—Icterus, Jaundice, Biliary Repletion—Atrophy or Wasting of the Liver—Fatty Degeneration of the Liver—Fatty Liver—Tuberculosis of the Liver, Spleen, and Peritoneum.

### CHAPTER VI. DISEASES OF THE ORGANS OF URINATION AND REPRODUCTION.

Brief Description of the Organs of Urination—Parenchymatous Nephritis, Inflammation of the Kidneys—Abscess of the Kidneys—Obstruction of the Cloaca by Urinary Concretions—The Male Organs of Reproduction—Hypertrophy or Enlargement of the Testicles—Cancer of the Testicles—Fatty Degeneration—The Female Organs of Reproduction—Atrophy of the Ovary—Tumors of the Ovary—Gangrene of the Ovary—Inflammation of the Oviduct—Prolapsus or Eversion of the Oviduct—Difficult Laying, Egg Bound, Obstruction of the Oviduct—Gangrene of the Oviduct—Rupture of the Oviduct—Cloacitis, Vent Gleet—Anomalies in Egg Production—Egg Incubated in the Oviduct—Parasites in Eggs—Sanguineous Eggs—Eggs Without Shells—Eggs With Two Yolks—Incomplete or Aborted Eggs—Eggs Within Eggs.

### CHAPTER VII. DISEASES OF THE BRAIN.

Cerebral Hyperæmia, Congestion of the Brain, Vertigo—Hemorrhage of the Brain, Apoplexy—Epilepsy.

### CHAPTER VIII. DISEASES OF THE HEART AND BLOOD VESSELS.

Pericarditis, Inflammation of the Pericardium, Dropsy of the Heart Sac—Endocarditis, Inflammation of the Internal Membrane of the Heart—Hypertrophy of the Heart—Rupture of the Heart and Large Blood Vessels.

### CHAPTER IX. PARASITES AND DISEASES OF THE SKIN.

The Epizoa or Parasites Living upon the External Surface of the Body—Scabies or Mange of the Body—Scabies Caused by Epidermoptes—Scabies Caused by Sarcoptes, Depluming Scabies—Favus—Chicken Pox, Sore Head, Pigeon Pox.

### CHAPTER X. DISEASES OF THE FEET AND LEGS.

Leg Weakness—Superficial Sores—Deep Bruises and Abscesses—Rheumatism and Gout—Scabies of the Legs, Scaly Legs.

CHAPTER XI. DISEASES HAVING A TENDENCY TO AFFECT MORE THAN ONE SET OF ORGANS.  
Tuberculosis—Diphtheria, Diphtheritic Roup, Infectious Leukæmia—Fowl Cholera.

### CHAPTER XII. INJURIOUS HABITS OR VICES.

Egg Eating—Feather Eating—Feather Pulling.

Orders will be filled in regular order as received. Price, 50 cents.  
Clubbed with THE FEATHER one year for 75 cents.

GEORGE E. HOWARD & CO.,

..Publishers..

S. W. Cor. 8th and H Streets N. W., Washington, D. C.



## PROSPEROUS TIMES.

### Flattering Testimonials from the Advertisers in The Feather.

#### A Successful Season.

That the past season has been a prosperous one for poultrymen generally, is evidenced by the numerous testimonials published below. Last month we made the following inquiries of our advertisers:

1. Has your trade this season been satisfactory to you?
2. Has THE FEATHER given good results in advertising?
3. What is the outlook for the coming season?

The responses have been more than encouraging and bespeak of the good times that are in store for the fraternity. Our readers will find much to interest them in the answers herewith given, and they will materially help those who contemplate doing advertising to form a good basis for their work, that they may have the good results these advertisers have:

My trade this season has been good. Sold more eggs than usual. There is no better advertising medium than THE FEATHER. — PHILANDER WILLIAMS, Taunton, Mass.

Our trade has been unusually good for this season, while the outlook for the future is very promising. THE FEATHER is all right. — JAMES RANKIN, South Easton, Mass.

Our trade this season has been satisfactory. The returns from THE FEATHER have been quite satisfactory. The outlook for the coming season is good. — E. C. STEARNS & Co., Syracuse, N. Y.

My trade has been good this season. THE FEATHER has given me good results as an advertising medium, and I think the outlook for the coming season hopeful. — S. F. GULLIFORD, Akron, Ohio.

My trade this season has been satisfactory. THE FEATHER has given me good results as an advertising medium. I consider the outlook for the coming season is good. — H. V. BUMP, Cambridge, N. Y.

Our trade the past season has been entirely satisfactory. Results from THE FEATHER also satisfactory. We think it too early to judge of the outlook for the coming season. — M. O. SHERER, Louisville, Ohio.

I have had a very large business this season, and THE FEATHER has furnished its share. I have a large stock of young birds, and it now looks like a great demand for good ones. — A. C. HAWKINS, Lancaster, Mass.

My business has been very good, and my ad in THE FEATHER sold more for me than I expected it to. The future looks good for the fall and winter trade. I have better birds this season and more of them. — F. C. BEACH, Plain City, Ohio.

THE FEATHER is all right, and may the devil cut the toes of all its enemies that we may know them by their walk. Trade has been all we could expect, and we are, therefore, happy. — L. S. BACHE, President Star Incubator Co., Bound Brook, N. J.

My trade this season has been good. THE FEATHER has been satisfactory as an advertising medium. The longer I

stay with you the more pleasure and profit I derive. The outlook for next season is favorable. — L. O. BROMLEY, Forestville, N. Y.

Trade has been very good indeed the past season. THE FEATHER has given good results. I am more than satisfied. The outlook is exceedingly bright for the coming season. I began to take orders for fall delivery long ago. — W. E. MACK, Woodstock, Vt.

My trade this season was double that of last season. THE FEATHER has given me a good many orders for stock and eggs. The outlook for the coming season is good. I have booked large orders for stock to be delivered after September. — A. G. BARLOW, Millers, N. Y.

Trade the past season has been the best in my experience. Egg trade was fine, especially the latter part, hatches were good, but not up to last season's high average. THE FEATHER has brought me good returns, especially from the South. Business outlook is the best for years. — W. C. DENNY, Rochester, N. Y.

I am pleased to state that our trade during the season just past has been better than ever before, and we suppose, of course, THE FEATHER has done us some good. With an extremely fine lot of young stock now growing, we look forward to and predict an exceptionally good season ahead. — CHAS. MCCLAVE, New London, Ohio.

Our trade the past season was very satisfactory. In regard to THE FEATHER as an advertising medium, we have not tried it sufficiently to say, but have already sold goods through this medium. We expect an increase in the Poultry Supply Department; our market capacity is hard to increase. — PURITAN POULTRY FARMS, Stamford, Conn.

We have had a good egg trade this season, and all came through the advertising in THE FEATHER. We are perfectly satisfied with our ad in THE FEATHER, which has given us good results. The outlook for the coming season is very promising. We have a large number of young Leghorns growing finely. — PLEASANT VIEW POULTRY YARDS, J. B. Hoffman, Manager, Sana-toga, Pa.

My trade has been perfectly satisfactory. I have no reason to complain. THE FEATHER has given me good results. The majority of my customers have been brought to me through my advertisement therein, and they have come from all over the country, showing that it has an extensive circulation. It has paid me. The outlook for next season is good. — DR. CHAS. B. TURNER, Snickersville, Va.

The demand for our eggs has been larger than we could supply, and for this reason we were obliged to return money sent us with a number of orders. The results from our advertisement in THE FEATHER have been satisfactory, and we thank you for the good our ad has brought us. The prospects for the coming season are very bright unless unforeseen conditions change them. — BRADLEY BROS., Lee, Mass.

The past season we had about 40 pens of White Wyandottes, and the supply of stock and eggs was not equal to the demand. The results from our advertisement in THE FEATHER are excellent. We think the outlook for the coming season is good. We are in-

creasing our brooder capacity to raise a larger number of chicks than ever before. — J. E. WHITE, Manager Willowcrest Poultry Yards, Goshen, N. Y.

I am proud to be able to inform you that my business during the past season has not only been double what it ever has been before, but it has been beyond my most sanguine expectations. THE FEATHER is largely instrumental in building up my business. I consider the prospects as very bright; better than ever before. I certainly ought to, and do, feel encouraged. — LEE F. MILLER, Wautauga Poultry Yards, Elizabethton, Tenn.

Our trade this season has been very satisfactory to us. We have had a very nice trade in the Clover Meal and \$5 Brooder. THE FEATHER has given us good satisfaction. We consider it a good advertising medium, and will be prepared to renew our ad this fall. With the fine quality of our goods, and THE FEATHER as an advertising medium, we expect to do a large trade in your section of the country. — JORDAN MILLING Co., Jordan, N. Y.

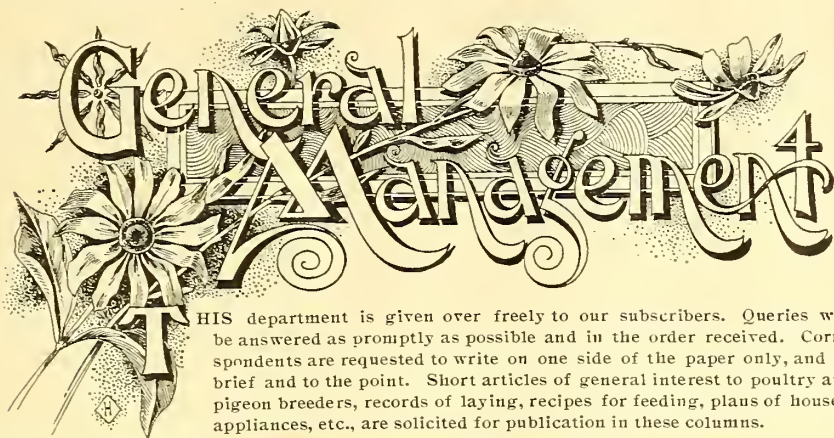
Our trade this season has been very heavy, and, in fact, beyond our last year's business very much. Our advertisements in THE FEATHER have sold a great many goods for us, and we are, in fact, much pleased with the results of our ads. From general inquiry, the outlook for business next season in our estimation, will be much heavier than it has been in the past ten years. — EXCELSIOR WIRE AND POULTRY SUPPLY Co., 28 Vesey St., New York.

I have shipped nearly double the number of settings of eggs this season I ever sold before, and all Black Minorcas. My advertisement in THE FEATHER has brought me good returns, and I have several good reports from both stock and eggs sold to readers of THE FEATHER, saying they are well satisfied. The outlook for a good trade is all I could wish it to be. The call for Black Minorcas is in the ascendant, and I am content. — J. H. DOANE, Gouverneur, N. Y.

I have done a fine business during the past winter and spring, and for much of it I can thank THE FEATHER. I have not been able always to make as prompt shipments as I would have liked, on account of the many wanting eggs at the same time. I had my machines idle for four weeks just in the height of the season so as to fill my orders. In most cases I have had the most satisfactory dealings with my customers, and shall look back to the season of '99 as one of the pleasantest of my life as a poultryman. The calls have come for stock, and I expect to have a fine trade for the summer. — ARTHUR G. DUSTON, Marlboro, Mass.

Trade has been good this season. The demand for fowls was such that we could have sold every bird on the farm. The outlook for a fall and winter trade is very promising. The fact that we are about to increase our advertising space in THE FEATHER is proof that we consider it one of our best advertising mediums. I would say this of THE FEATHER, or rather of the readers of THE FEATHER who answer its advertisements; in every case but one where I have received inquiries (and I have received a goodly number) I have made sales. This I can not say of any other journal in which I have advertised. — E. S. & W. WAYNE, Bernardston, Mass.





THIS department is given over freely to our subscribers. Queries will be answered as promptly as possible and in the order received. Correspondents are requested to write on one side of the paper only, and be brief and to the point. Short articles of general interest to poultry and pigeon breeders, records of laying, recipes for feeding, plans of houses, appliances, etc., are solicited for publication in these columns.

### Shipping Eggs.

Editor The Feather:

I noticed an article under this heading in the May number of your paper, in which the writer complains bitterly of the way the express companies handle eggs. While there may be some instances of carelessness, or worse, it seems to me there is not much cause for complaint when you consider the vast numbers of settings that are handled during the months of March, April, and May. I have sent out a great many settings and this year the trade has extended from Canada to Texas and from the Island of Nantucket to Montana, and only one egg has been reported cracked and that was in a shipment that took a ninety-mile wagon ride to a Montana ranch after it left the cars.

I pack very nearly the same as this gentleman describes as his way, except (and I think this is where his eggs have come to grief), in filling in between the eggs with chaff, hay seed, or wheat hulls. Any such material as that is apt to shake away from one part of the basket to another and leave the eggs to jar against each other. Instead of this I use, as he describes, excelsior at bottom and paper; then, after wrapping each egg in soft paper, make of excelsior as near like a bird's nest as you can, put the egg in it, place side by side in basket and excelsior and paper thick over them and sew down cloth. If the basket has two handles I tie them together to prevent anything being set on the basket.

We can not expect eggs to hatch as well that have traveled a thousand miles more or less as those set at home; and eggs sent out early in the season, at least in central New York climate are not very fertile. So I do not believe the express companies are entirely to blame for all the complaints that come back to us from the disappointed buyer, who possibly expects such a hatch as Mrs. Biddy brings off when she starts her nest under the woodpile in June. The way of the chicken fancier in the matter of selling eggs for hatching seems sometimes hard, but if he does his best for fertile eggs, and replaces settings where the disappointment seems too great, he shall receive his reward—in time.—LIZZIE GOODELL.

### Isn't This "The Best Breed"?

Editor The Feather:

The announcement of the latest important event in Poultrydom, will, I suppose, form a part of your July issue. As a member of the Executive Committee, I want to record my conviction

that it is a shame that the hundreds of lovers of the Rose Comb Brown Leghorn have been so chary of lauding the numberless good qualities of this most attractive breed. But, we are all in the same boat, in that respect; and can only show our penitence by future good conduct in this line.

"From the chick to the griddle" there isn't a fault to find with the breed. And no one can fling a stone at it, with the single exception of lacking a market carcass. And this not in quality, but merely in size.

Even in beauty, not mentioning now, utility, this breed leads. "I don't care what you say," said the woman next door, "the Brown Leghorn chicks are the prettiest of the whole lot. Even the fluffy white things can't come up to them." Most of us agree with her, and the beauty of the full-feathered bird is universally admitted. The brilliancy of coloring, and the smooth, hard plumage, showing perfect vigor, are seldom equalled, and who dare hint at their being excelled?

One is as certain of a large percentage of chicks from the Brown Leghorn's eggs as it is possible to be sure of anything in connection with hens. And they will be hustlers, too. They will mature in half the time allotted to a Brahma, and will lay till they surprise even their owners. Age but increases their value, up to a certain point. We have one yard of Rose Comb Brown Leghorns, now four years old, that distanced all the rest of the flock during the winter, and have also been laying from sixty to seventy-five per cent of

their number ever since spring opened.

For more than ten years, we have banked on the White Leghorn, as best meeting our own needs in all-around way. But, every year since we first raised them, the Rose Comb Browns have crowded the Whites a little harder in our estimation, till now we are about ready to capitulate, and admit that they distance even our favorites. Since we received the first eggs of this breed, we have tried, for greater or less periods, the Black Langshan, the White Wyandotte (noble birds both), the Barred Plymouth Rock, the Rhode Island Red, and, always, the royal White Leghorn. Before that time, we had handled Leghorns, Minorcas, Brahmas, Wyandottes, in fact, most of the favorite breeds. If the remarkably useful Rose Comb Brown Leghorn does not stand first in our affections to-day, it is only because we find it better to use together, always, a Mediterranean breed, and one of heavier build and differing characteristics. The White Leghorn is too good to give up, hence we find ourselves with three breeds, with not one of which can we bear to part, or afford to part, even though, at times, three breeds is two too many.

All this is praise from one who loves, and breeds, and sells this most practical bird; but, if its worst enemies should get together, and say the worst things they could think of, it would only be that there was never enough of a Leghorn to go around, and, perhaps, that the flesh was poor and dry. The flesh of the Rose Comb Brown Leghorn differs from the other Leghorns in this respect; it is excellent and juicy; and, as to the other awful defect, take two Leghorns!

MYRA V. NORYS.

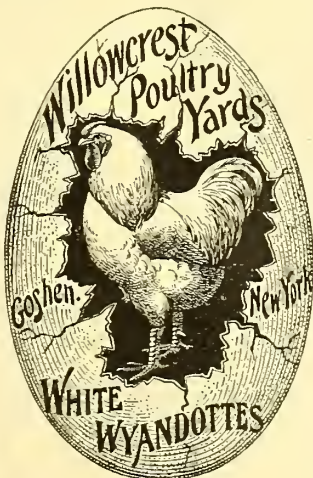
Exec. Com. Amer. R. C. Br. Leg. Club.

### The Popular Wyandottes.

Editor The Feather:

Are the Wyandottes coming to the front, are they at the front to-day?

If you were to ask the average fancier to-day what was the leading variety, or in the show-room what variety leads, he would, undoubtedly, without hesitation say the Barred Plymouth Rock, a sort of a habit we all have gotten into without, perhaps, appreciating the real facts of the case. For a moment let us indulge in a few figures. By reference to the Boston catalogue of 1898 we find in the single classes there were Barred 110, Buff thirty-seven, White seventy,



300

WHITE WYANDOTTE

Hens For Sale at from \$1 to \$3 each,

—AND—

...40 COCK BIRDS...

\$2 and \$3 each.

Must Have Room for Young Stock.

THE HOME  
...OF THE WHITE WYANDOTTE,

Willowcrest Poultry Yards,

J. E. WHITE, Manager.

Goshen, N. Y.



thirty pens in addition, making a total of 367 birds in Plymouth Rocks. In Wyandottes, single classes, White seventy-one, Buff thirty-seven, Silver forty-nine, Golden thirty-two, thirty-three pens in addition, making a total of 354 birds. By comparison we find there were thirteen more Plymouth Rocks than Wyandottes, a very much closer comparison in 1898 than one would have thought. In fact, many would have thought there was twice the difference. Now let us come to the present year, 1899. In Plymouth Rock, single classes, we find Barred eighty-seven, Buff fifty-four, White sixty-seven, twenty-three pens in addition, making a total of 323 birds in Plymouth Rocks. In Wyandottes we find in single classes, White, 117, Buff forty-three, Silver thirty-seven, Golden thirty-eight, thirty-six pens in addition, making a total of 415 birds. By comparison again we find that there were ninety-two more Wyandottes than Plymouth Rocks. To follow the matter still further we find that there has been a falling off of sixty-eight Plymouth Rocks and a gain of eighty-six White Wyandottes, while the other varieties in both Plymouth Rocks and Wyandottes have remained about the same. It is a fact that the Wyandottes are gaining all over the country. At lesser shows than Boston this fact is strongly in evidence. I have heard it stated by our judges who travel from one show to another throughout the show season that the Wyandottes were fast coming to the front, and the time was not far distant when they would lead in popular favor, and why should they not?

In England the Wyandottes lead all others, the Golden and Silver being the most popular. The Wyandottes as a family possess more desirable qualities than any other breed to-day. Our marketmen say they make the best broilers and roasters, can be brought to maturity quicker, hence more profitable in this direction, and as far as egg production is concerned they are conceded to excel when eggs are at their highest price, and from a fancy standpoint there is nothing that can compare with the Silver or Golden (as taste may differ). From an artist's view they are surely the beauty breed of all our known varieties, and again for those who prefer a solid-colored fowl we find the White and Buff. When in exhibition condition in the eye of an admirer of white fowls there is nothing whiter than a White Wyandotte. Last, but not least, by any means, are the Buffs. If I were to say all I could in favor of this new variety it would fill a book. Suffice it to say, they are the equal of their sisters in every way and their growing popularity speaks volumes for their success.

During the New York show, in 1898, a small number of Wyandotte breeders met and organized the National Wyandotte Club of America. A great deal of enthusiasm was manifested at the time and has been maintained to the present. The sole object in forming the club was to further the interests of the Wyandotte, and it was thought by bringing the Wyandotte breeders together their united energies could accomplish what otherwise could not be attained. During the past year the exhibits of Wyandottes have largely increased both in quality and quantity throughout the country, and, while it is not certain the club has brought this about, the co-incidence is worthy of note. It is pleas-

ing to note the officers are breeders of sufficient prominence to warrant the support of breeders generally.

The club is national in every sense of the word. Its first meeting was held in New York, its second will be held in Boston, its third wherever its members find it will do the most good to the greatest number; and it is quite likely the time is not far distant when every exhibition, east and west, will feel the purse of the National Club. How far this can be carried will depend largely upon the support given by the breeders. Only by considering for a moment what can be done if the breeders of the several Wyandotte families will co-operate can the magnitude of the club be fully realized. It means thousands of dollars for special prizes, enlarging the breeders' business proportionately.

The National Club does not conflict in any way with specialty clubs, rather it desires to co-operate and feels it deserves support fully as much. We feel the time has come when we should do all in our power to support the Wyandotte and we hope every breeder in the country will join us, north, east, south, and west, it makes no difference whether it be a large or small breeder, every one counts equally. The membership fee is one dollar, which should be sent to the secretary, C. S. Mattison, South Shaftsbury, Vt.

#### Grown Onesided.

*Editor The Feather:*

What feed do you feed show birds to have them take on fat rapidly? I have bred Buff Plymouth Rocks for the past three years and have had two or three cockerels that have spoiled their shape by growing onesided. Can you tell me the cause of it?—J. B. L., Williamston, Mich.

Nothing will put on fat faster than oatmeal and corn, or cornmeal. Some other articles of food may be added for

variety, but those mentioned form the principal part of the diet.

Birds grow onesided from inherited tendencies, or they may acquire crooked breasts by going upon the roosts when too young. The fault is to be prevented, therefore, by selecting proper breeding stock and keeping the young birds from the roosts until three or four months old.

#### Chronic Roup or Contagious Catarrh.

*Editor The Feather:*

Please tell me what to do for my turkeys. Two years ago all my turkeys but one died with a lump under their eye, and one has had it this year. I have opened the lump and something like the white of an egg would come out, then it would fill up again. They can not see to eat. What shall I do for them?—Mrs. A. M. M., South Frankfort, Mich.

The turkeys are affected with chronic roup, or contagious catarrh. After opening the swelling and removing the contents, inject carbolic acid solution of the strength of two per cent, or fill the wound with iodoform. Clean and disinfect with lime-wash the buildings where the turkeys roost.

#### Buff Cochins Exclusively.

My breeders are the best money can buy. A lot of early-hatched pullets and cockerels. Eggs as usual, \$3 per 15, or \$5 per 30.

HOMER H. MCGOVNEY,  
Washington C. H., Ohio.

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### Lee's Lice Killer Kills Lice and Mites.

Sample and 64-page booklet free by addressing Omaha office.

GEO. H. LEE CO., Omaha, Neb., or 68 Murray Street, N. Y.

### Lee's Germozone Cures Roup and Cholera.

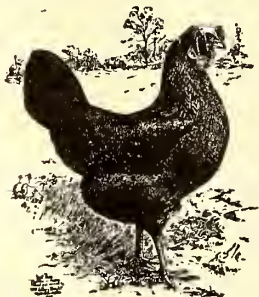
Now prepared in tablet form for mailing. Send 50 cents for full-size pkg. postpaid. Use it freely for 10 days. If not fully satisfactory, return unused portion and we will refund your money promptly. Trial size postpaid 10 cts.

GEO. H. LEE CO., Omaha, Neb., or 68 Murray Street, N. Y.

## LOOK AT THE LIST

...OF...

## FIRST PRIZE WINNERS



At the head of my matings for 1899. My catalogue of matings tells you all about it. Send for one and be convinced that the strongest matings

Barred Plymouth Rocks,  
Brown Leghorns,

....Are in these yards.

16 First Prize Winnings  
at New York and Boston  
now in the yards.

EGGS: \$3 per 13;  
\$10 per 50.

These from the same matings  
I use myself. None other  
matings made.

## GROVE HILL POULTRY YARDS,

A. C. SMITH, Superintendent,

W. E. BRIGHT, Prop.

Box 411, Waltham, Mass.



**Rheumatism and Bruises.***Editor The Feather:*

Will you kindly inform me what is the matter with my poultry? Have lost quite a number this year, both young and old. With some, the first sign that anything is wrong is that they lose the use of both legs; the droppings are thin and very white. On some I have found bunches grown out on different parts of the body, as large as a horse chestnut, which are hard and black at the top, and when lanced are found to contain dark blood. Would be very thankful for any information on the subject.—A. J. H., Manchester, N. Y.

The legs are probably affected with rheumatism. To counteract this, see that the houses are dry and free from draughts and give three or four grains of baking soda daily for each fowl in the drinking water. The dark bunches are bruises. Either the roosts are too high and the birds bruise themselves in flying down, or they receive injuries in some other way. Try to find the cause.

**Weak in the Legs.***Editor The Feather:*

Is there such a thing as chickens having what is called gravel disease? I have a one-year-old Barred Plymouth Rock rooster seemingly in good health, and a fine looking bird, but has a great weakness in his legs. If he jumps on the roost he tumbles down, or if he is made to run, on the least turn tumbles over. He crows and works well in search of feed. I fear to lose him, as many chickens in this vicinity have died when affected in the same way. Please tell us what you think of the rooster, and what is best to do with him.—T. T. P., Dorothy, N. J.

From your description, it appears that the rooster has rheumatism. This is caused by exposure to cold and dampness. The houses should be dry and clean and so arranged that the sun will shine in them during the day. See reply to A. J. H.

**Brown Leghorns.**

males with that soft, brown, even color so desired.

**JUDD H. JOHNSON,**  
Elmira, N. Y.

**B. B. RED GAMES.**

The grandest lot of chicks we ever raised. If you want birds with tremendous reach, fine snake heads, long thin necks, low close tails, combined with brightness of color, and hardness of feather, we can supply you. Also grand massive **BUFF COCHINS**, brothers and sisters to our winners at Johnstown, Brockton, Keene, Fitchburg, Boston and Brattleboro. Cornish Indian Games, Pin Games, and Game and Ornamental Bantams. **PEIRCE BROS., Lock Box P, Winchester, N. H.**

**Have You Smiled** Over the clever war souvenir, "THE FLAG THAT WON"? A splendid gift for a soldier friend and contains many fine poems for recitation. It tells THE TRAGIC STORY OF OUR SPLENDID MAINE; THE FUNNY STORY OF OUR WAR WITH SPAIN; THE MAGIC STORY OF OUR WORLD-WIDE GAIN; THE BRILLIANT STORY OF OUR PEACEFUL REIGN. By mail, postpaid, 30c.

**MYRA V. NORYS,** Cranford, N. J.

**HATCH CHICKENS BY STEAM**

with the Excelsior Incubator. Thousands in successful operation. Simple, perfect, self-regulating. Lowest priced lat-class hatchery made.

**EXCELSIOR INCUBATOR**

is guaranteed to hatch a larger percentage of fertile eggs at less cost than any other hatchery.

Geo. H. Stahl, 114 to 122 S. 6th St., Quincy, Ill.

**HOMING  
PIGEONS**

**G. R. BAYLE,**

1643 Race St.,  
Phila., Pa.

Reliable Birds at

Reasonable Prices.

**Barred Plymouth Rocks  
AND White Wyandottes.**

300 Youngsters bred from my winners ready for sale after September 1st. Write for particulars to

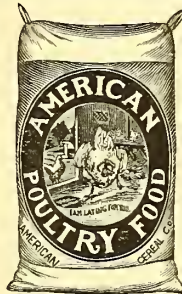
**M. B. HICKSON,** Lynchburg, Va.

**Boiled Beef and  
Crushed Bone,**

The Ideal food for both old and young chickens.

\$1.50 per 100 lbs.

**WM. H. BIXLER,** Hagerstown, Md.

**A Peerless  
Food for Chicks**

*Sold only in Sealed and  
Branded Sacks.*

American Poultry Food is a food—not a condition powder. It is a scientifically prepared, ready-mixed, daily ration.

**Do You Want Eggs?**

Feed American Poultry Food.

**Do You Want Quick Growth?**

Feed American Poultry Food.

**Do You Want Show Birds?**

Feed American Poultry Food.

If you are Raising Chicks for Market, there is no food that will force them so fast and produce such all-around development and perfect quality as

**A MORNING MASH.****HOW TO MAKE CAKE FOR CHICKS.**

Thoroughly mix three pints of American Poultry Food, one pint of clover meal, a third of a teaspoonful of salt, and five teaspoonfuls of baking powder: wet with water or milk to a moderately stiff batter and thoroughly bake in a slow oven; the inside of the cake will serve as a mash, and the outside can be used in place of hard grain.

Practical Poultry Feeding, a little book covering a wide range of subjects of vital interest to Poultrymen, will be sent you free, post paid, on request.

Address, **SCIENCE DEPARTMENT,**

**THE AMERICAN CEREAL CO.,**

13,1 Monadnock Bldg.  
CHICAGO, ILL.





CONDUCTED BY J. C. LONG, NEW YORK CITY.

### Pigeons.

The following is a summary of a number of letters received by a correspondent from Mr. F. J. West, of New York State, a prominent wholesale millinery dealer, who is also a breeder of fancy pigeons for pleasure, from which may be drawn many good lessons by the beginner.

"SYRACUSE, N. Y.,

"Nov. 22, 1898, to Jan. 24, 1899.

"DEAR SIR: I see by THE FEATHER you advertise 'White French Runts.' Kindly let me know about them and what their wing measurements are. I am particularly in want of a hen that will measure thirty-two inches from tip to tip of wings, to mate to a cock that is extra good and measures thirty-four and one-half inches. Am willing to pay \$5 for such a bird as I mention. If you have one of that measure send at once on the following terms; namely, that if not satisfactory I will keep her in my loft two days, then return and pay express charges both ways. I keep pigeons for my own pleasure, have pure white only, every variety I can get, and from the best breeders in the business.

"I have just eighty birds in my loft, and every bird first class in every respect. I do not sell my birds, have exchanged a good many and in some instances have given three for one. I do not breed in the cold season, and have the sexes separated until March 1st. I have nineteen varieties, all pure white, as follows: African Owls, Chinese Owls, Pigmy Pouters, Antwerp Homers, Turbits, Fantails, Swifts, Barbs, Tumblers, English Pouters, English Carriers, Dragoons, Jacobins, Runts, Hen Pigeons, Russian Trumpeters, Short Faced Tumblers, Scandarouns and Frillbacks. —F. J. WEST."

Mr. West was kind enough to mail our correspondent a copy of the Syracuse *Sunday Herald*, in which a full page was given to an illustrated pigeon write-up mainly describing his loft, but mention was made of others who are also making pigeons a hobby in that neighborhood. A half-tone cut gave a good idea of the building and aviary in which his stock is kept, while the following is a condensed description of the interior of his loft as set forth in the *Herald*:

It is a two-story building with a cellar, and is probably one of the finest pigeon-houses ever constructed. Outside, two flights of wire netting, reaching from the ground nearly half way up the second story, furnish exercising places for the birds. There are numerous perches throughout the flights, and on sunny days the many snow-white pigeons scattered about on these form a beautiful picture against the green back-ground formed by the dove-cote. The inside of the pigeon palace is

a revelation to those who connect the birds in their thoughts with pictures of attics, barn lofts, and such places. The door leads into a small reception-room. There are soft Turkish rugs on the floor and easy chairs to add to one's enjoyment of the room. A large glass tank full of water, in which various species of gold fish sport, occupies a goodly portion of the floor space.

The house is lighted throughout with electricity and at the end of the sitting-room are three rows of buttons, which turn on and off the electric current on the three floors. There is also a table on which are magazines and other literature relating to pigeons, poultry, and kindred subjects. The thing which first attracts the attention of most visitors, however, is a glass door set in the wall. Through it can be seen shelves supporting rows of bottles and boxes. This is the pigeons' own private medicine-chest, in which are kept remedies for the various diseases which the pigeon fanciers dread.

Besides the sitting-room the first floor contains two lofts arranged on each side of a narrow hallway. The walls of this hallway are board up to a man's waist, from which wire netting reaches to the ceiling. These lofts open into the two flights already mentioned. In one loft are kept the male birds, while the females occupy the other. They are kept together during the breeding season only. Sawdust is sprinkled on the floor of each of these lofts and in each is a zinc tank containing water. The tank is of sufficient size to allow several birds to bathe at once and the water can be refreshed by simply turning a faucet. There is also a wooden feed-box with bars across the top to prevent the birds scratching the grain. There is a foot-scraper just outside of every doorway, and outside of each door hangs a brush and dustpan for taking up any sawdust which may be carried out of the loft on the shoes. Owing to the precautions the house is constantly in a state of scrupulous cleanliness. The partition between the sitting-room and the loft consists entirely of the boxes which form the nests of the birds. A trap-door forms the back of each box, so that the nest may be reached without going into the loft, and every one of these boxes has affixed to the trap-door a number, so that records of the breeding may be kept. In the breeding season an earthen dish, similar to an old-fashioned butter-bowl, filled with sawdust, forms the nest in which the young are raised.

Excepting the Homers the two lofts contain the pick of Mr. West's collection. Upstairs there are two lofts; these are larger than the lower lofts, and occupy the entire upper floor except the small hallway. In one of these lofts are kept the Homers. In the other

loft on this floor are kept all of the poorer birds, not bad ones by any means, but those which do not quite come up to the standard which Mr. West desires. They are kept there until there is a chance to trade them off.

Each loft, both upstairs and downstairs, has a ventilator to furnish it with the necessary supply of fresh air. The cellar is the only part of this pigeon-house which has not yet been described. It is in that part of the building that the feed is kept, and consists of one big room. There are big feed-boxes filled with corn, wheat, buckwheat, and maize around the sides of the room, and also barrels filled with fresh sawdust for sprinkling on the floors of the lofts. There are also baskets for carrying the birds and cages where they may be placed in solitary confinement. In the center of the room there is a stove by means of which the building is kept warm in the winter time.

But few comments are necessary, for after reading the above, even an amateur may see many points that will help him. You will see that it pays to keep the right kind of stock in the first place, for five dollars is a good price for a pigeon, and the only difference in raising five-dollar birds and fifty-cent birds is the first cost paid for the breeders. It is not necessary in starting in the pigeon business to have a loft as costly as is here described; any building suitable for poultry will do nicely for pigeons. I would suggest to those who have never kept pigeons and wish to try their hand at the business, in buying your first stock look for quality and not quantity. Start with but one variety by all means and you will never regret that you paid five dollars for one pair instead of buying five pairs for the same money.

### Medical Messages.

The writer of the letters published in a previous number on "Homing Pigeons as Medical Messengers," Dr. Philip Arnold, of Elizabeth, Illinois, has been for some time breeding these wonderful creatures to use in his practice, and also incidentally supplying other doctors wishing to use them as medical messengers. The writer now wishes to call to the attention of farmers, and especially the gentler sex, in what manner the Homing Pigeon could be made of great service to them. From experience it has been found that the Homing Pigeon is the best variety to select for the breeding of "Squabs for the Market." Farmers' wives and daughters will find this very profitable. The quantity of this kind of meat consumed is immense, but would be greater still if the supply was made equal to the demand in large cities.

All lovers of flowers will find in pigeon manure one of the best fertilizers known. It should be mixed first with four or five times its bulk of black ground before applying it. There will be no trouble to sell it to florists. Pigeon fanciers usually get \$1 per bushel for it. So that it will be well to save the droppings when the pigeon-house is scraped and find a market for the pigeon manure.

A few of the Homing Pigeons could be trained as messengers. One of the many ways these messengers could render great service is as follows: It may happen that when your family



physician calls to visit the sick at your house the disease has taken some turn or change not foreseen, or it may be you have called your doctor from a neighbor who is sick, to some member of your own household, and the doctor finds that he has not with him the exact medicine he wishes to prescribe. This being the case you could send one or two of your messenger pigeons with the doctor, and the desired medicine with directions could be sent. It might seem unreasonable to some that this could be done, yet it is very simple.

In the first place the science and art of medicine has made it possible, to take from crude drugs only the active medicines desired, so that a medicine may be very small in quantity and yet be very active. Thus combined in a tablet form the medicine can be sent by aerial post, by placing the tablets in a capsule made from aluminum invented by Professor Marion of the U. S. Naval Academy. This capsule is very light and is water-tight and is so made that it is fastened to the pigeon's leg. When the doctor has placed the desired medicine and directions on inside of capsule, the bird is liberated and will bring you the medicine at the rate of one mile a minute to its home loft. I regard these message holders as quite indispensable, and now I furnish two message holders with each pair of breeders. These capsules are used exclusively by the United States Pigeon Service. For further information correspondence is invited. Enclose a stamp for a reply.—PHILIP ARNOLD, M. D., Elizabeth, Ills.

#### Lost Homers.

A pigeon, banded A 11,860, is a visitor at the loft of J. N. Nutter, Mendon, Mass. Owner will please communicate with Mr. Nutter.

A Homing Pigeon, marked B. 101, with counter-band E. V. is held by Mr. F. Taylor Thompson, Bealeton, Va. The bird was picked up at Remington, Va., was hurt, and too poor to fly. Owner can have his property upon proving same.

A stray Homer came to the loft of F. D. Barnes, Northampton, Mass., on June 9th, tired out. The bird is a Silver hen. Seamless leg-band on one leg marked 98-910, aluminum band on the other leg marked B. 08. Mr. Barnes will send bird to owner, if requested.

Mr. E. D. Crouch, 1013 G St. S. E., Washington, D. C., has in his loft a Homer, with band numbered 66,406, that came to the U. S. Tug Triton, exhausted and hurt in one of its legs. The hurt was probably caused by a lot of cotton stuff which was wound around and had lamed it. The owner can have same by sending Mr. Crouch a description of the bird, its mark, and band letter.

#### When You Compare.

When you compare the Diseases of Poultry by Dr. Salmon with other books on that subject you will admit that none approach it in thoroughness, in illustrations, or in clearness. And yet we sell it for only 50 cents postpaid. GEORGE E. HOWARD & CO., Publishers, S. W. Cor. 8th and H Streets N. W., Washington, D. C.

Advertisers in THE FEATHER are known to have good results.

#### TOO LATE FOR CLASSIFICATION

FOR SALE.—50 Blk., Red, and Mottled Booted and Smooth-Leg Tumblers, 75c. a pair, grand performers. 50 pairs Homers, 75c. a pair; and all kinds of Fancy Pigeons, cheap. Send stamp for further particulars. SOMERSET PIGEON LOFTS, Somerset, Mass.

KILL LICE ON POULTRY with Liquid Lice Paint. Sure death to all vermin, cheap, harmless, easily applied. Formula how to make and use it, 10c. postpaid. GALLATIN SONS, York, Pa.

EXCHANGE.—Will exchange hive of Bees, and modern hive for Light Brahma pullets, heavy middle-toe feathering, or White Minorca pullets. Address—D. E. LYON, Island Heights, N. J.

#### ...MINERAL VALLEY LOFT...

W. Conshohocken, Mont. Co., Pa.  
I. D. GRIFFITH, Prop.

A few of this year's banded Homing Pigeons for sale cheap. Wegge, Hussen, and Whiteley stock.

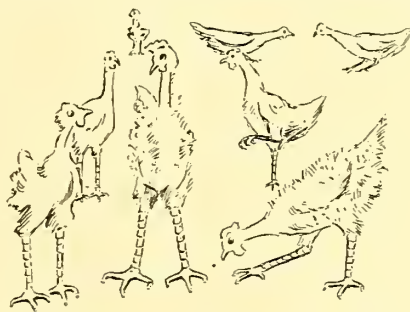
#### ..American Homing Review..

A Semi-monthly Journal of Information concerning the Breeding, Care, and Training of Homing Pigeons. Published by

HOWARD CARTER,  
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If your chicks don't grow, and you don't know  
Why So,  
Puritan Foods Will Show.

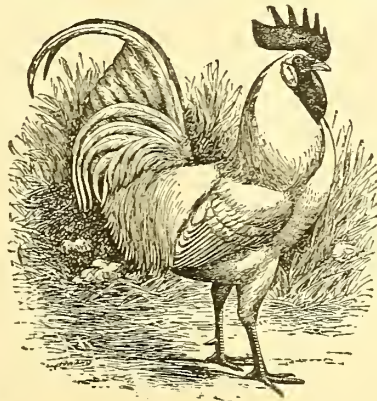
#### ...Puritan Poultry Farms...

Largest and Most Elegant Plant on the Continent.

D. A. DE LIMA & CO.,

Stamford, Conn.

#### The Home of the S. C. W. Leghorn.



There is nothing better than

#### POWERS' LEGHORNS

For laying machines; they lay in season, and out of season.

At Clinton (Mass.) show on an entry of 10 birds, 6 first prizes, 3 seconds, 1 third, and a special.

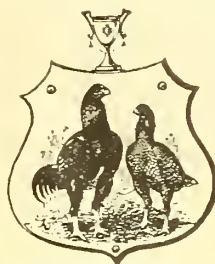
At Fitchburg show on entry of seven different birds, 1 won 5 firsts, 2 seconds, 3 specials, and a pen scoring 186½.

#### EGGS FOR HATCHING...

\$2 per 13; \$3 per 26; \$4 per 39; \$5 per 52; \$6 per 65; \$6.50 per 78; \$7 per 91; \$8 per 104.

No birds to breed from less than 90 to 95 Standard points.

F. G. POWERS,  
Sterling, Mass.



SUPERB...  
Cornish  
Indians  
AND  
INVINCIBLE  
White  
Plymouth  
Rocks.

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TAKEN FROM LIFE.  
"John Bull" and "Queen Vic." winners at Crystal Palace, London, 1897. Recently imported by us. Winners at the leading shows in the U. S. and abroad. Send for large catalogue.  
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#### MOST NOTED STRAINS

B. P. Rocks, Sherwoods, C. Indians, W. & S. Wyandottes, S. C. Buff Leghorns, and B. Javas. Fine as silk. Prize winners. Eggs, \$1.50 per 15; \$2.75 per 30. After June 15th, 75c. per 13. Breeding pens for sale July 1st.

A. R. MARKEL, Tyrone, Pa.

#### ..BLACK LANGSHAN..

—EGGS—  
Your last opportunity to get eggs from my stock at these prices.  
\$1 per setting of 15 from 4 pens.  
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## Shows and Associations.

The Jackson (Mich.) Poultry Association will hold their annual exhibition at Jackson, December 18-22, 1899. I. K. Felch, judge.—W. H. EATON, secretary.

The Manchester (N. H.) Poultry Association have voted to hold their next annual show January 2-5, 1900, and have secured C. A. Ballou, and J. F. Watson for judges.—W. B. SANFORD, secretary.

The thirty-ninth annual poultry show and fair of the Frederick County Agricultural Society will be held October 17-20, 1899. Geo. O. Brown, judge.—HARRY C. KEEFER, secretary, Frederick, Md.

The second annual show of the Clinton (Mass.) Poultry Association will be held December 5-8, 1899. We are informed by the secretary, Mr. E. G. Burdett, that they intend holding one of the largest shows outside of Boston, with a large list of cash specials.

We have received from the American Magpie Club a neat little pamphlet containing their constitution, by-laws, standard, and other matters of interest relating to the club. Their officers for the year are: D. H. Jenkins, president; Robert Joos, first vice-president; W. D. Harper, second vice-president; W. A. Gibson, secretary and treasurer.

The Crestline (Ohio) Fanciers' Association have re-organized for their second annual show to be held December 12-16, 1899, and elected the following officers: M. Curran, president; J. H. Eby, vice-president; W. P. Deam, second vice-president; E. R. Warders, secretary; W. D. Cover, treasurer; Frank Slaybaugh, superintendent. I. K. Felch has been secured as judge.

The Cincinnati Poultry Association has elected new officers as follows: President, F. C. Wright; first vice-president, Dr. E. M. Barnes; second vice-president, Dr. C. S. Liggett; treasurer, Julius Friedeborn; secretary, A. E. Brooks. The next annual show will be held January 16-20, 1900. Please address all communications to A. E. Brooks, secretary, S. W. Cor. Seventh Street and Freeman Avenue, Cincinnati, Ohio.

We are in receipt of a copy of the Constitution and By-laws of the Southwestern Poultry, Pigeon, and Pet Stock Association recently organized in Dallas, Texas. The Association is meeting with much encouragement throughout Texas, Louisiana, and Mississippi. Through the press the enterprise has been before the public and applications for membership and stock are already coming in daily. With the interest that is being taken by the fanciers and breeders, there can be no doubt but that its first annual exhibition to be held in December, will excel any poultry show that has been held in the Southwest. H. M. Skelton is secretary.

The Milwaukee Poultry Fanciers' Association will hold their first annual poultry and pigeon show, December 18-25, 1899, at the Milwaukee Industrial Exposition Building, and from present indications it threatens to rival any of the large western shows. The Milwaukee breweries have donated some grand silver cups to be competed for at their coming show and several other business concerns have placed specials in the premium lists. The association is making a strong fight to secure the annual meeting of the American Magpie Club, and at the present time the

prospects look very bright. If they secure the meeting the club will hang up several grand trophies for this popular variety. The club will have the best judges, both in pigeons and poultry, to be obtained in America, and the show-room will be equipped with the most modern coops.

The announcement is made of the recent organization, at New Albany, Indiana, of the American Rose Comb Brown Leghorn Club, with list of officers as follows: President, W. W. Kulp, Pottstown, Pa.; vice-president, L. L. Doolittle, Barnardston, Mass.; secretary-treasurer, Charles M. Zink, New Albany, Ind. Executive committee: Including the three officers named above, and M. V. Norys, Cranford, N. J.; W. Theo. Wittman, Allentown, Pa.; H. C. Watson, Clyde, N. Y.; S. G. Alured, Ionia, Mich.; J. L. Randolph, Bartlett, O.; Geo. Stahmer, Oak Park, Ill. Advisory Board: Henry E. Voigt, Hamburg, Wis.; L. M. Varney, Spokane, Wash.; C. R. Milhous, Indianapolis, Ind.; Lewis H. Boyles, Meadville, Pa.; N. Stedem, Marshall, Mo.; A. A. Gray, Redwood Falls, Minn.; J. M. Correll, Lewisburg, W. Va.; C. J. Lancaster, Maywood, Ill.; Lewis P. Plagman, Minden, Ia.; B. H. McGrew, Boise City, Idaho; L. P. Baird, Bogart, O.; R. E. Woollard, Sixteen Acres, Mass.; Dr. P. E. Martin, Seward, Ill.; Harry Turner, Beloit, Wis., and Frank R. Ecker, Lowell, Mich.

The club is exclusively an organization of Rose Comb Brown Leghorn breeders, and its interests are not merely local or personal in any manner. Its work is thoroughly national, and deserves the support of every progressive, broad-minded, public-spirited Rose Comb Brown Leghorn breeder in the country. The object of the club is to advance the interests of the Rose Comb Brown Leghorns and their breeders in every possible way. The membership fee has been fixed at one dollar, and we cordially invite every reputable Rose Comb Brown Leghorn breeder in the country to join the club. All correspondence cheerfully answered. We now have (June 20th) forty-five charter members, and all new members received up to August 1st, will be placed on our charter membership list. Send one dollar at once to the secretary-treasurer for membership card, which will be mailed promptly, and thereby help swell the list and help the good cause along.—CHARLES M. ZINK, Sec'y-Treas., New Albany, Ind.

## List of Specialty Clubs and Officers.

The present year shows prospects of being the most prosperous in the history of poultry culture. All fanciers should join, and lend their enthusiastic co-operation to boom the specialty clubs.

A little help from each breeder will enable these clubs to accomplish much during the coming show season.

In the past year several of the older clubs have shown renewed energy, and the later-formed associations have met with wonderful success, due to hard work and hearty interest of their efficient officers and members.

All fanciers should recognize the personal benefit they can obtain from these clubs, if they will give assistance and become identified in pushing, persevering toward poultry prosperity.

Do not leave the work to others, but do your share. Many small efforts united will make a large result.

Let all lovers of thoroughbred poultry join in a mighty trust to increase interest in more and better poultry.

And as the specialty clubs are powerful factors to aid in this, they should receive the cordial support of all.

Keep this list for reference and try to interest your friends to become members of some club.

Fraternally yours,  
WM. H. RHEES.

Washington, D. C.

AMERICAN POULTRY ASSOCIATION.—President, Allen Bogue, London, Ontario, Canada; Secretary-Treasurer, H. A. Bridge, Columbus, Ohio, U. S. A.

AMERICAN COCHIN CLUB.—President, David A. Nichols, Monroe, Conn.; Secretary-Treasurer, Arthur R. Sharp, Taunton, Mass.

AMERICAN DORKING CLUB.—President, Henry Hales, Ridgewood, N. J.; Secretary-Treasurer, Frank H. Prentice, North Grafton, Mass.

AMERICAN EXHIBITION GAME AND GAME BANTAM CLUB.—President, T. A. Havemeyer, New York, N. Y.; Secretary-Treasurer, Chas. T. Cornman, Carlisle, Pa.

NATIONAL GAME AND GAME BANTAM CLUB.—President, W. E. Walden, Hartford, Mich.; Secretary, J. C. Pratt, 170 Adams St., Chicago, Ills.

AMERICAN HOUDAN CLUB.—President, F. W. McKenzie, Concord, Mich.; Secretary-Treasurer, Thos. F. Rigg, Iowa Falls, Iowa.

AMERICAN LANGSHAN CLUB.—President, Benj. S. Myers, Crawfordsville, Ind.; Secretary-Treasurer, Ralph McAdoo, Ashland, Ohio.

SOUTHERN LANGSHAN CLUB.—President, Stephen T. Lea, M. D., Hodges, S. C.; Secretary-Treasurer, R. Reid Harding, Forest Depot, Va.

AMERICAN LEGHORN CLUB.—President, Ezra Cornell, Ithaca, N. Y.; Secretary-Treasurer, Geo. H. Burgott, Lawton's Station, N. Y.

AMERICAN BUFF LEGHORN CLUB.—President, Chas. D. Pierce, Oakland, Cal.; Secretary-Treasurer, D. H. Foster, Gowanda, N. Y.

AMERICAN ROSE COMB BROWN LEGHORN CLUB.—President, W. W. Kulp, Pottstown, Pa.; Secretary-Treasurer, Chas. M. Zink, New Albany, Ind.

AMERICAN BLACK MINORCA CLUB.—President, C. J. Andruss, Canandaigua, N. Y.; Secretary-Treasurer, Rowland Story, 187 Arlington Ave., Brooklyn, N. Y.

AMERICAN WHITE MINORCA CLUB.—President, J. W. Lyder, Akron, Ohio; Treasurer, C. W. Jerome, Fabius, N. Y.; Secretary, William Sapper, Erie, Pa.

AMERICAN PLYMOUTH ROCK CLUB.—President, W. S. Russell, Ottumwa, Iowa; Secretary-Treasurer, H. P. Schwab, Rochester, N. Y.

AMERICAN BUFF PLYMOUTH ROCK CLUB.—President, F. C. Shepherd, Toledo, Ohio; Secretary-Treasurer, W. C. Denny, Box M, Rochester, N. Y.

AMERICAN WHITE PLYMOUTH ROCK CLUB.—President, E. H. George, Groveland, Mass.; Secretary-Treasurer, Frank Heck, New Albany, Ind.

NEW ENGLAND BARRED AND WHITE PLYMOUTH ROCK BREEDERS' ASSOCIATION.—President, A. C. Hawkins, Lancaster, Mass.; Secretary-Treasurer, W. B. Atherton, Randolph, Mass.

SOUTHERN BARRED PLYMOUTH ROCK CLUB.—President, Walter H. Bray, New Berne, N. C.; Secretary-Treasurer, James P. Kerr, Biltmore, N. C.

AMERICAN BUFF WYANDOTTE CLUB.—President, L. C. Piser, Shushan, N. Y.; Secretary-Treasurer, Wm. C. Klee, 278 Meigs St., Rochester, N. Y.

NATIONAL WYANDOTTE CLUB.—President, J. H. Drevendst, Johnstown, N. Y.; Secretary-Treasurer, C. S. Mattison, South Shaftsbury, Vt.

EASTERN WHITE WYANDOTTE CLUB.—President, Chas. F. A. Smith, Waltham, Mass.; Secretary-Treasurer, W. E. Mack, Woodstock, Vt.

AMERICAN WHITE WONDER CLUB.—President, H. F. Corning, Hartford, Conn.; Secretary-Treasurer, Mrs. May French, New Haven, Vt.

CORNISH INDIAN GAME CLUB.—President, A. W. Bowman, Salem, Va.; Secretary-Treasurer, Adam Thompson, Amity, Mo.

NEW ENGLAND LIGHT BRAHMA CLUB.—President, Philander Williams, Taunton, Mass.; Secretary, G. W. Cromack, Stoneham, Mass.

RHODE ISLAND RED CLUB.—President, Dan'l P. Shove, Fall River, Mass.; Secretary-Treasurer, John Crowther, Fall River, Mass.

NATIONAL BANTAM ASSOCIATION.—President, Philander Williams, Taunton, Mass.; Secretary, E. Latham, Flatbush, L. I., N. Y.

AMERICAN COCHIN BANTAM CLUB.—President, T. H. Adams, Pawtucket, R. I.; Secretary-Treasurer, Henry S. Ball, Shrewsbury, Mass.

NATIONAL BRONZE TURKEY CLUB.—President, J. M. Rapp, La Moille, Ill.; Treasurer, W. A. Moon, Otterbein, Ind.; Secretary, S. H. Taylor, Sibley, Ill.

WATER FOWL CLUB OF AMERICA.—President, T. Farrar Rackham, East Orange, N. J.; Treasurer, A. J. Hallock, Spoonk, L. I., N. Y.; Secretary, Theo. F. Jager, Lebanon, Pa.

NATIONAL PET STOCK ASSOCIATION.—President, H. B. Savage, Belton, Texas; Secretary-Treasurer, H. L. Keller, Tiffin, Ohio.



## THE BUSINESS WORLD.

As Viewed From the Columns of The Feather.

### BUFFINTON'S BUFFS.

Mr. R. G. Buffinton, the well-known breeder of many buff varieties of fowls, is the proprietor of Maplehurst Farm, which is located in Somerset, Mass., two and one-half miles from Fall River. Mr. Buffinton has been in the poultry business since 1865, and has had stock on exhibition every year since but two, winning thousands of prizes. He has sold stock to parties in every State in the Union, and has shipped birds to Mexico, Canada, South America, England, Germany, Cuba, and Africa. His place is also headquarters for Buff, Black, and White Cochins Bantams, and he has won hundreds of prizes on these little beauties. His ad is in our columns always. If you want Buffs for breeding or exhibition, write for his prices, which are low.

### TRANSFER OF STOCK.

Elmira, N. Y., June 13, 1899.

To whom it may concern:

I have this day sold to Judd H. Johnson, of Elmira, N. Y., Secretary of the Elmira Poultry Association, my complete stock of Brown Leghorns consisting of ten cocks and sixty hens, (these are all my winners and past year's breeders), 400 chicks, good will, and Brown Leghorn cuts.

I can recommend Mr. Johnson to my patrons as a reliable and honest man backed with a knowledge of how Brown Leghorns should be bred.

I shall continue breeding the Buff Wyandottes only.

C. E. HOWELL, Elmira, N. Y.

### KAY BUFF LEGHORNS.

C. H. Morris, Millheim, Pa., is a breeder of the Lister Kay strain of Buff Leghorns exclusively, and writes that he has a pen of high-scoring birds; the hens being from eggs direct from a pen of imported stock of three years ago, and the cockerel, scoring ninety-three points, direct from pen imported in 1897. He challenges any one to produce their equal for laying. He has received many testimonials from gratified customers, one of which we give below:

Davenport, N. C., May 16th, 1899.

Mr. C. H. Morris,  
Millheim, Pa.

Dear Sir: I must tell you how much gratified I am at my hatch of chickens. The fifteen eggs you sent me arrived in good order, and every one of them hatched, so that I have fifteen healthy, beautiful chicks. I hope to raise them all, and shall give them special attention. Thanking you for your kindness, I am,

Yours very truly,

JESSE W. SILER.

### AN INTERNATIONAL REPUTATION.

Philander Williams, the well-known breeder of Autocrat Light Brahmas, writes us that he has received an order for ten of his best birds from a gentleman in Cape Town, South Africa, and he is now preparing to ship them by steamer from New York. The price is a long one, but his customer evidently knows what he wants and where to get the best of the kind. The fact that an order comes from such a distance indicates that Mr. Williams enjoys not only

a national reputation, but an international one as well.

### TRANSFER OF STOCK.

Oil City, Pa., June 13th, 1899.

This is to certify that I have sold to F. S. Bullington, Richmond, Va., my prize Buff Cochins Bantam cock "Woodcleft," pronounced by the best judges as being the best colored and most typical Cochins-shaped male Bantam in America.

(Signed)

L. L. LUCAS.

### A REMOVAL.

Spratts Patent Limited writes us as follows: "We shall not renew our lease of present premises, which are too small for our present business. We have decided that it is better in every way that we should own our own factory and have purchased land and buildings near the Pennsylvania and Central Railroad of New Jersey depots in Newark, N. J., where we shall have more room, larger accommodation for the storage of materials. We shall also increase the number of our ovens so that our capacity will be doubled. We expect to begin to move in the near future and shall probably be shipping from Newark before the end of the year."

### ANNOUNCEMENT.

Sterling, Mass., June 27, 1899.

Editor The Feather:

I wish to take this way through the columns of your paper to thank the public for the generous patronage accorded me during the past season, and hope, by fair dealing and using every means to furnish the best of stock, to receive a liberal share of their orders in the future.

(Signed)

F. G. POWERS.

### MOST NOTED STRAINS.

Dr. A. R. Markel, Tyrone, Pa., is a breeder of prize winners in the most noted strain of Barred Plymouth Rocks, Sherwoods, White and Silver Wyandottes, Cornish Indian Games, Single Comb Buff Leghorns, and Black Javas. He is now selling eggs for hatching at a reduced price, and is also offering breeding-pens for sale. Dr. Markel duplicates poor hatches, if honestly reported. His ad is in our columns, and our readers wanting choice stock in his varieties should write him.

### PRIZE-WINNING BANTAMS.

At the Maryland Sportsmen's Exposition, at Baltimore, Md., April 17-22, W. W. Wallick, of York, Pa., entered eight birds, and won six first prizes and two second prizes as follows: 1st on Silky cock and hen; 1st on Red Pyle Game Bantam cock and hen; 1st on White Polish Bantam cock; 1st on White Cochins Bantam hen; 2d on Silver Sebright Bantam cock and hen. This is a good showing, and those wanting Bantams should write Mr. Wallick for his prices. He has no eggs for sale. See his ad in our classified columns.

### THANKS.

Editor The Feather:

I wish you would return my thanks to Mr. J. A. Bergey, of Telford, Pa., and let all the readers of THE FEATHER know it. When we have a good man we must keep him. I bought sixteen Dark Brahmas eggs of him. I broke two, which left me fourteen. Out of the fourteen I have twelve fine chicks. I will get more.—FRANK GALLOWAY, Sunbury, Pa.

# Creolene Poultry Paint.

The Best Vermin Destroyer  
...on the Market...

Can be used with perfect safety and is guaranteed to free your poultry and buildings of all mites and lice if used according to the printed directions on each can.

We are also Manufacturers of

# Carbolized Dust

For dusting-boxes, dropping-boards, &c., &c. Takes away all moisture of droppings and makes your house healthy, thus preventing diseases in your poultry. Why pay 20 to 30c. per lb. for lice powder when our **Carbolized Dust** will do the same thing at 1-30 of the cost. Put up in cotton sacks at the following prices:

50 lb. sack 50c.

100 lb. sack 90c.

1 ton \$16.

We will pay a reward to any one who will prove our goods are not as represented.

We want an active agent to work for us in each State and County in the United States, a chance for you if you are a hustler, if not we do not want you. Write at once as these goods will be placed on sale in your town, and why not be the one to make some money?

### A COMBINATION OFFER.

To introduce our goods to all of the readers of THE FEATHER we will give for the next 30 days one Gallon of our Creolene Poultry Paint and one Sack of Carbolized Dusting Powder for \$1, and ship promptly on receipt of order. Remember that all of our goods are fully guaranteed.

We are, also, manufacturers of all kinds of

Roofing Materials, Paints, &c., &c.

Cattaraugus Roofing  
& Paint Company,

Salamanca, N. Y.



## Classified Advertisements

Fully prepaid advertisements of thirty words or less inserted under this heading at the following rates:

|                  |        |
|------------------|--------|
| One time.....    | \$ .50 |
| Three times..... | 1.00   |
| Six times.....   | 2.00   |
| One year.....    | 3.50   |

### READ CAREFULLY.

Copy may be changed as often as desired, though we advise running a standard ad. when possible, in order that buyers may become acquainted with it. Length of ad. is not limited, but additional words will be charged at the rate of 1½ cents each for one insertion, or 1 cent each for each insertion when run three times or more. Initials and figures count as single words.

### PLYMOUTH ROCKS

#### BURDICK'S YEARLY SALE OF BUFF PLYMOUTH ROCKS.

Now "Old Glory" proudly waves o'er Porto Rico: The Philippines are ours, and Cuba free; Vast armies must be paid, you can meet the taxes laid,

By breeding Burdick's "Nuggets," don't you see?

My strain is well known as producing the winners at all the leading shows, Chicago, '99 included. I now offer over 100 first class breeding hens, 30 yearling cocks, 500 young birds. Exhibition birds a specialty. Everything reasonable. Breeders, \$2 up. Write letters to H. S. BURDICK, Rome, N. Y.

**WHITE ROCKS EXCLUSIVELY.** Bred for practical and exhibition purposes. Two firsts and one second from three entries, Hagerstown, 1898. First and second hens, second cockerel, Washington, D. C., 1899. Eggs, \$1.50 per 13. Stock for sale. J. F. DEFANDORF, Garrett Park, Md.

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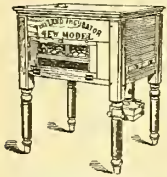
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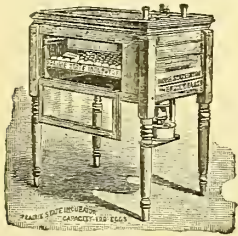
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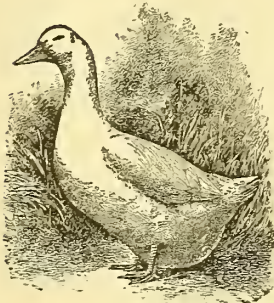
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Wishing your mammoth farm a continuance of the popularity which you are now enjoying, I remain,

Yours very truly,  
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BARRED PLYMOUTH ROCKS,  
MAMMOTH PEKIN DUCKS.

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S. C. WHITE LEGHORNS,  
MAMMOTH PEKIN DUCKS.

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PLAINFIELD, N. J.

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Our BROWN LEGHORNS

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At Boston, 1st yard and 1st cock.

Elmira, Five 1sts and Nine 2ds and 3ds.

We also sold thirty birds that were winners for our customers at large winter shows.

Catalogue free.

C. E. HOWELL,

Elmira, N. Y.



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WHITE - BUFF - BARRED.  
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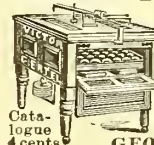
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ARE BREED BY DUSTON  
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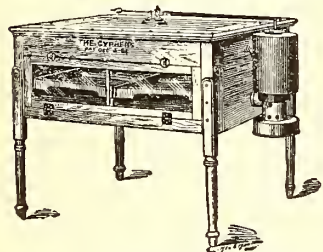
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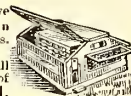
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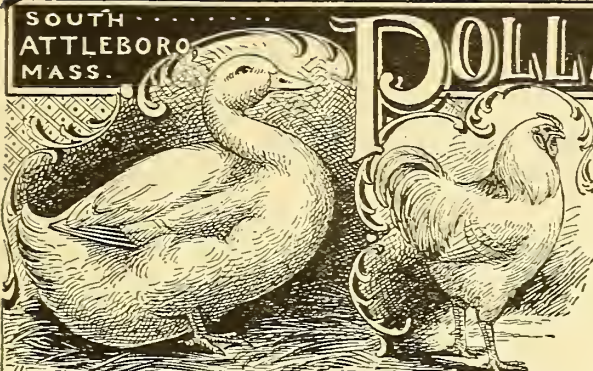
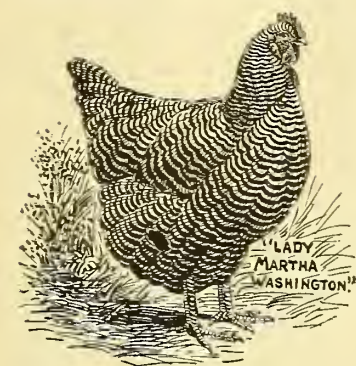
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Pekin Ducks, White Wyandottes, and White Rocks,

Are money makers. Our Pekins the past winter won on 6 entries at Madison Square Garden, 1, 2, and 3 on both duck and drake. At Hagerstown, Md., a clean sweep of all Pekin prizes. At R. I. Poultry Show 15 regular and 8 special prizes on 16 entries, (losing 4th on old drake). At R. I. State Fair clean sweep. Eggs, \$2 per 12; \$5 per 50; \$8 per 100.

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Only Duck Farm in New England advertising where premiums are won.

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Shipping young chicks to a point that can be reached within 36 to 48 hours is no experiment. I will ship 13 strong healthy chicks that are from my best pens for \$5. I can furnish a large number to be shipped after Monday, May 29th, from 2 to 3 hundred will hatch at that time. I will also punch toes when desired and give a key to the punch mark that you can tell from what pen they are hatched.

...Incubator Eggs, \$3 per 100.

"LADY MARTHA WASHINGTON."

1st at Hagerstown, '96.  
1st at Washington, '97.

VALLIE HAWKINS, M. D.,

Fawn Grove, Pa.

## ROUP

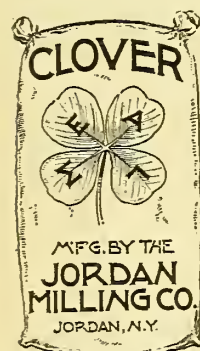
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## ROUP



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Clover Meal will insure the egg yield in winter. It will insure more and stronger fertilized eggs, it will keep the hens in good health and vigor, it is equally as good for newly-hatched chicks as it is for matured hens. It will assist in putting those choice birds in the pink of condition for exhibition, and it is especially good for molting hens. We have the advantage over our competitors and can save our customers at least \$3 a ton freight and from two to four days in getting this Clover Meal. Our mill is at Jordan, N. Y., 17 miles west of Syracuse, on the New York Central and the West Shore Railroad and the Erie Canal. Price of Clover Meal, \$2 per 100, put up in 50-pound sacks. Send for Sample and Free Catalogue. We also manufacture the Famous \$5 PRIZE BROODER. It stands without an equal as a complete brooder-house summer or winter.



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1892 Rossmore Poultry Yards 1899

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Improved "Full Feathered" Dark Brahmas Exclusively.

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ROCKS: Buff and White.

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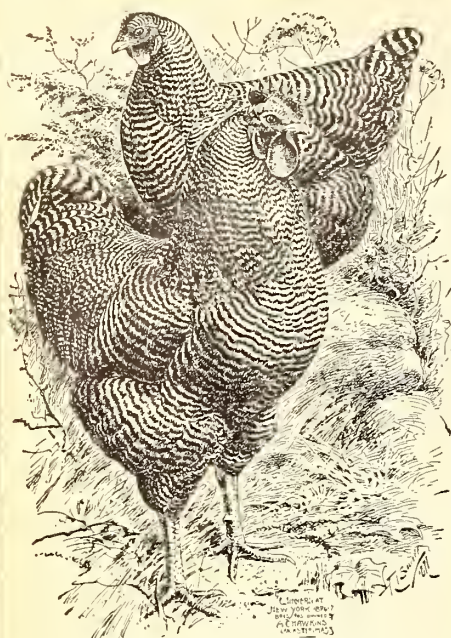
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Booklet all about hens and how to make them lay, free. Send your address.

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Winners at New York, 1897, from life.

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ROYAL BLUE STRAIN

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WYANDOTTES, SILVER AND WHITE.

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 1 Sitting, \$5. 3 Settings, \$10.  
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 Per 100, \$20.00.

Have won more Prizes at the Leading Shows of America and England than all others. My matings for 1899 are the best I ever owned.

At the Great National Show, WASHINGTON, D.C., in hot competition with over 300 birds of these varieties, the best that could be found regardless of price, I won 45 Regular and Special Prizes on 39 Entries, including First Prize on Breeding-Pen in each variety, Special for Best Display in the American Class, Special for Best Exhibit of Plymouth Rocks, Sweepstakes Special for Best Cockerel in the show (Bantams excluded), and this on my First Prize Barred P. Rock Cockerel. My winning White Wyandotte cock was pronounced by the judges to be the best they had ever seen. I won twice as many first prizes as all other exhibitors of these varieties. My BUFF ROCKS, at BOSTON, 1899, in hot competition, won more first and special prizes than all others. My customers are winning all over the country. If you want the BEST, write me. Hundreds of Choice Exhibition and Breeding Birds at honest prices. Catalogue of America's finest Plymouth Rocks and Wyandottes free.

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AT CHICAGO, 1899,

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Won more regular premiums than any other exhibitor, in a class of 82 birds by 14 exhibitors. Among the specials was the one for 2 best cocks, hens, cockerels, and pullets by 1 exhibitor; also special for most even colored cock. Still have some choice breeders for sale. Eggs, \$3 per 13. Orders booked now. Send for circular.

W. C. DENNY, Rochester, N. Y.

## PRIZES BY THE MILLION

Well hardly.

But 18 First Prizes out of a possible 25 at Madison Square Garden, New York,

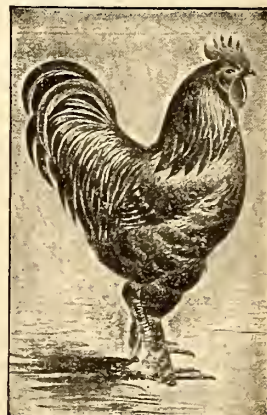
In the last 5 years is a pretty good starter. 63 prizes on 70 entries including \$100 cup and \$25 trophy seems like a fairy story. They are facts nevertheless. Now what do these prizes mean? Just this. No other breeder of

## ...BLACK LANGSHANS...

In America can show as great a prize record as Dr. Robinson. At New York City, 1899, he won 1st cock, 1st, 2d, and 3d hens, 2d and 4th cockerels, 1st, 2d, and 3d pullets, 1st, 3d, and 4th exhibition yards. Grand Gold Special for best Langshan, 13 prizes on 13 entries. My record on Exhibition Yards at Madison Square Garden in the last five years, viz: 1st, 3d, and 5th in 1895; 1st, 4th, and 5th in 1896; 1st, 2d, and 3d, in 1897; 1st, 2d, and 3d, in 1898; and 1st, 3d, and 4th in 1899, has probably never been equalled by a breeder of any variety at any show in America. In these 5 years my Langshans have won 6 times as many 1st prizes as any other exhibitor and nearly 3 times as many 1st prizes as all competitors combined. For great style and carriage, magnificent plumage, small, evenly serrated combs, this strain can not be excelled. Enclose stamp for finely illustrated circular giving complete prize record.

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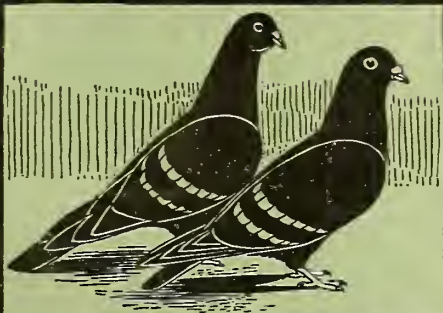


"NEW YORK CHIEF."  
 1st Ckl. N. Y. City, 1897.  
 1st Cock N. Y. City, 1898.

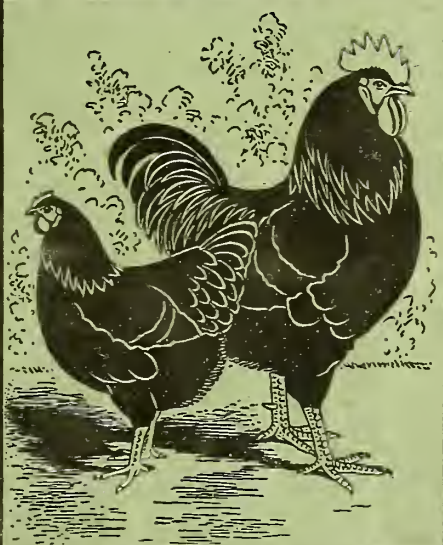


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# The Feather



PIGEONS



POULTRY

WASHINGTON, D. C.

Vol. IV. AUGUST, 1899. No. 11.

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"The Diseases of Poultry," See Page 402.



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AUGUST, 1899.

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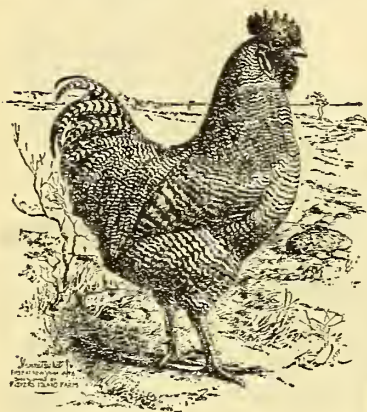
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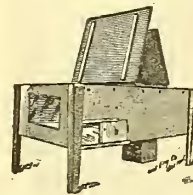
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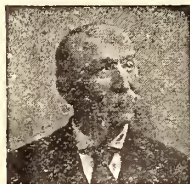
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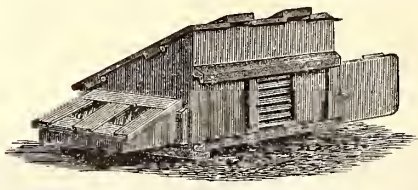
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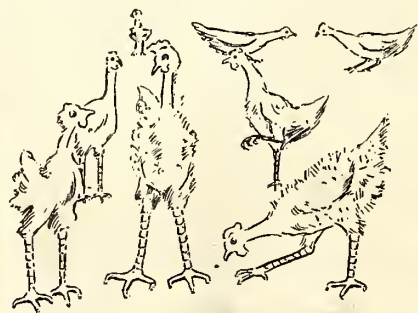
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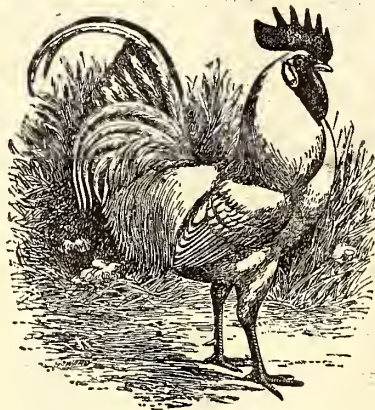
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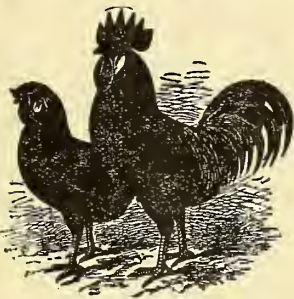
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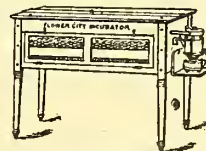
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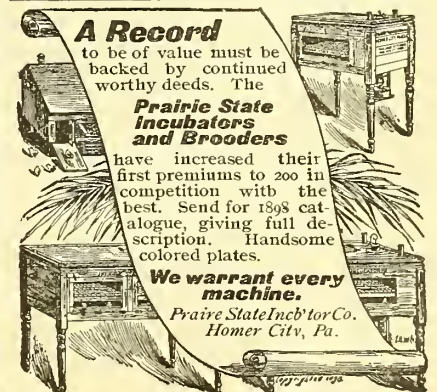
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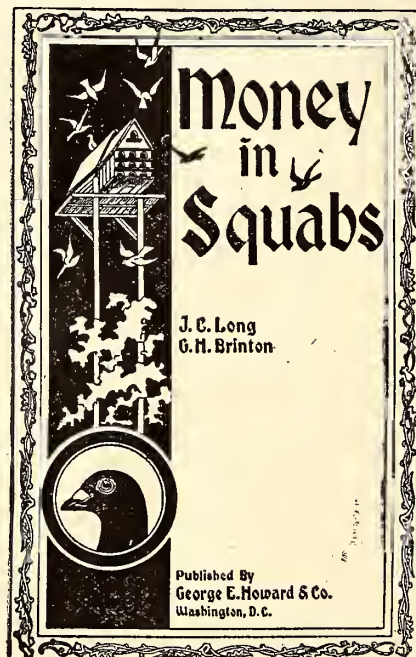
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FIVE CENTS.

## GOOSE RAISING FOR PROFIT.—II.

Raising Geese in Confinement—Laying—Hatching—Care of Eggs Under Incubation—Coops for Goslings—Prices of Geese—Marketing Geese.

### Care and Feeding of Goslings.

**G**EESE may be raised in confinement, in which case each colony consisting of a gander and one to three females should be given a lot of from 75 to 100 feet square or larger if possible. They should remain in this yard until they are mated, after which they may be allowed to run together. It is well to provide a field in addition to the small lot in which there is an abundance of grass, clover, or green rye for pasturage, and in which the birds can roam a part of the time. They will do much better at large than if closely confined. The geese should be made to feel at home, they should not be frightened, or unnecessarily disturbed, but should always be treated gently. It is best to have but one person to take care of them, as they soon become accustomed to this party and are not disturbed by his or her presence.

In handling a goose, it should be taken by the neck, raised from the ground in such a position that its back is towards the person, and partly supported by seizing the first joint of the most convenient wing with the unoccupied hand. If a goose is held so that it faces the person handling it, its disposition is to strike with its wings, scratch with its feet, raise a commotion, and make itself generally disagreeable. On the other hand, if it is held with its back to the handler, it remains quiet and docile and can be managed with great ease.

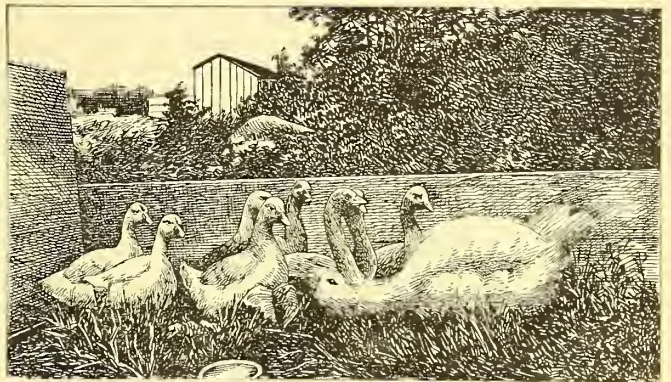
### LAYING.

Nests made of boxes or old barrels should be provided early in January and placed in the most sheltered and out-of-the-way situations, where the geese will feel that they can retire and lay their eggs without attracting attention. On no account go near a goose when she is on the nest, as this gives her the impression that she is watched and leads to desertion of the nest.

Put straw or some kind of litter in the nests, and some of the geese may begin laying in February. After laying, the goose covers her eggs with litter, and this should be disturbed as little as possible in remov-

ing the eggs. The eggs may be gathered every day in cold weather before they become chilled, but a nest egg, which may be artificial, should be left in the nest. If a second nest egg is added after a time it encourages the bird to continue laying. Always cover these nest eggs to make the nest look just as the goose left it.

Young geese lay from sixteen to twenty-four eggs the first season and are not often broody. Old geese lay from twenty to fifty eggs during a season. When they get broody confine them in a dark box or coop or put them into another yard with an extra gander



AN INTERESTING FAMILY.

where they will be away from the other geese, move the nest to another place, and in three or four days turn the goose out again and she will probably soon begin laying.

A careful record should be kept of the product of each goose, so that the unprofitable birds may be eliminated and the prolificacy of the flock increased. In order to do this there should be sufficient nests provided so that each goose will have her own. Every colony should be numbered, and every goose should have a letter or mark by which it can be designated. A record is then made of the eggs as they are gathered. These are marked and when hatching the percentage of fertile eggs from each bird is noted. This affords the basis for intelligent selection in breeding up the flocks.

### HATCHING.

The first laying, which consists of twelve to twenty eggs, should be set under hens, preferably selecting birds of good size for this purpose, and giving them from five to seven eggs each. The second laying, which will not contain quite so many as the first,



should also be hatched with hens. The third laying, which will complete the product of the season, should consist of eight to fourteen eggs and may be hatched by the goose. Eleven eggs is usually sufficient for a setting, though some geese will cover twelve or thirteen.

It requires from twenty-eight to thirty days, sometimes longer, to hatch goose eggs. After they have been incubated from five to eight days it is well to test them and remove those which are not fertile. The fertile eggs should then be brought together under as many hens as will cover them nicely, and those hens which are robbed in this process may be given settings of fresh eggs. Some attention must be given to goose eggs when they are incubated by hens, or they will become too dry and fail to hatch. The shells and lining membranes are hard and tough and even a little lack of moisture makes a noticeable difference. Eggs when under a goose seldom suffer in this respect if the bird has access to water when she is off the nest, since considerable moisture will adhere to the feathers and be carried to the nest. This natural method of sprinkling is not in operation when the eggs are under hens, hence, some substitute is necessary, at least during the last two weeks. Some sprinkle them with warm water and others with cold water, still others dip them about the twenty-fifth day for one minute in water at 104 degrees F.

#### CARE AND FEEDING OF GOSLINGS.

The hens should be carefully watched while the goslings are hatching, for some hens do not take kindly to such unnatural offspring and may kill the youngsters almost as fast as they come out of the shells. In cases of this kind, remove the goslings as they hatch and give them to a quiet, well-disposed hen or place them in a blanket-lined basket by the fire during the day and put them back under the hen at night. As soon as the hen accepts the situation, and shows motherly interest in the goslings, they are safe.

When the young birds are thoroughly dry, or about twenty-four hours after hatching, remove hen and brood to a large, roomy coop and pen them up for five or six days. The goslings will then be able to take care of themselves, and they will give the old hen no end of trouble trying to keep them within bounds, and out of the water. Some breeders prepare enclosures of a size suitable to give the goslings a fair run and locate these on a lawn or field of young grass. The enclosure may be a simple triangular or quadrangular pen made of boards about a foot wide. This is high enough to confine a goose and goslings, but a hen must be put in a coop or tethered to a stake. The broods are placed in such enclosures when they are taken from the nest and kept there for a week, after which they are allowed to go where they please. They should be sheltered in the coops at night and the hen should be kept with them until she begins to lay.

When the brood is removed from the nest, that is, when the young birds are twenty-four to thirty hours old, they should receive their first feed. This may consist of soaked bread, of cornmeal slightly moistened, or of coarsely ground meal and bran scalded and mixed to a crumbly consistency. They should be allowed to run on young grass from the first, as this is the natural food of goslings and the most important part of their diet. Provide a shallow dish of water and another dish of sharp sand saturated with water to which they can have free access. Some mix sand and charcoal with the meal. The water dish should never be allowed to get empty.

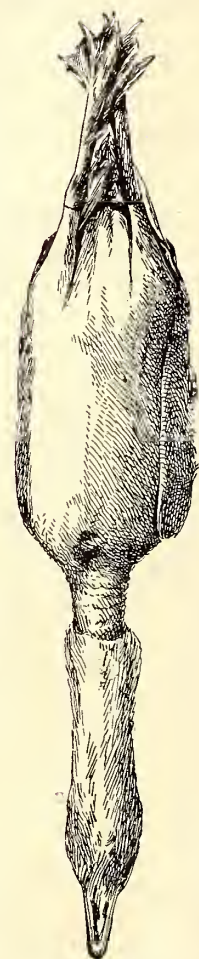
The little goslings are covered by a very fine, soft

down, which does not shed water very well and which, consequently, soon becomes wet. The young birds should be kept as dry as possible, especially in cold weather, or they will become chilled, stunted, or even die from such exposure. The drinking vessels should, therefore, be shallow and the goslings may be kept out of them by partly filling with small stones. If they get wet from rain or running through wet grass, and the air is cool, they should be thoroughly dried and warmed. Do not allow them to go into the water for swimming until fully feathered, unless the weather is quite warm.

The attendant should, also, watch for goslings which through some mischance have fallen upon their

backs and are unable to right themselves. This is a common mishap with these creatures. A goose generally knows enough of the disabilities of goslings to turn them over with her bill when they get in this predicament; but a hen-mother does not comprehend the situation and will leave them to die.

While young, the goslings should be fed four or five times a day, using care not to overfeed. With plenty of nice, young grass only a limited quantity of grain is required, but if the grass is scanty they must have more grain feed, as it is essential to keep them constantly growing until they are sold. Some breeders after the third or fourth day give a ration composed of equal parts by measure of bran, middlings, and steamed cut clover or cooked vegetables. This is given them morning, noon, and night until they are sold, or until at the age of about eight weeks they are penned for fattening, in order to be marketed at ten weeks old. Others give for the first four or five weeks nothing but stale bread, fed dry, in addition to all the young grass or clover which they will eat. After five weeks, they feed a mash of one-third cornmeal and two-thirds bran. If they are to be fattened after six weeks feed one-half bran and one-half cracked corn moistened but not sloppy.



AFRICAN-EMBDEN  
CROSS.

In some sections they are put in a pen at eight weeks old and fattened upon cornmeal mixed to a dry crumbly condition and beef scraps amounting to twenty per cent of the bulk of the meal. They should not be frightened or irritated during the fattening period or they will not do well. If there is a lack of grass, fodder crops of green oats, kale, clover, or even sweet corn may be grown and cut up for the goslings. Such birds are marketed at ten weeks of age, or when the wings reach the tail, and they should then weigh between eight and ten pounds.

The coop in which the goslings are confined at night should be placed upon dry ground or may be bedded daily with cut straw, otherwise it soon becomes damp and the young birds will suffer from rheumatism. During the day this coop should be so placed that it will afford shade from the hot sunshine, as young goslings are liable to be overcome by heat and may die from its effects.



As the goslings increase in age they are given more and more liberty and encouraged to feed as much as possible upon young, tender grass, which is not only their natural food but the most economical diet that can be furnished them. When four or five weeks old, it will be sufficient to give mash or cracked grain morning and night, and whole wheat or corn may be included in the ration as they get older. When the flight-feathers of the wings have grown until they reach nearly or quite to the tail the goslings are ready to sell to the fatterer or to be penned up for fattening.

#### MARKETING.

In the eastern section of the country the goslings are usually sold alive at the door. They are purchased for a very few men who are extensively engaged in the business of fattening and marketing green geese. Some of these are sold when only four weeks old and in exceptional cases, if very early and well grown, have brought as high as \$2 each. They are more commonly sold at six or eight weeks old, bringing from \$1 to \$1.25 each.

Persons living in districts not reached by the agents of the fatteners, must fatten the goslings which they raise and market their carcasses. The fattening ration has already been given. This is fed in wooden troughs, giving as much mash in the morning as the goslings will eat up clean in the course of an hour. At noon the diet may be varied by a feed of whole corn. At night give the mash in considerably larger quantity than in the morning, as they will eat during the night. A small quantity of salt is dissolved in the water used for scalding the mash, and a little powdered charcoal is mixed with it twice a week. No green food is given after the first day or two. They should have a constant supply of gravel and broken charcoal. The fattening continues for fifteen to twenty days, and should end in about that time, as they are likely to lose their appetites or to begin molting if continued longer. If at the end of this period any goslings are not fat, these are allowed to run on grass for a week or two, with only a small quantity of grain, and are then put through the fattening process again.

It is very desirable to have the flesh and fat as white as possible, and some feed white corn or white corn-meal in the belief that it has a tendency in this direction. Oats, barley, and wheat are also thought to produce white flesh. The goslings should be killed when taken from the fattening pen or soon afterwards, because if shipped or carted away alive the fat will have a dark appearance and the birds will not sell well.

When young goslings are to be dressed for market they are killed by cutting with a stout knife across the upper and back part of the mouth, severing the main blood vessels that go to the head. They are then taken by the legs and given a quick, sharp blow on the head with a hard wood stick, which stuns the bird and causes its muscles to be relaxed. The picking should then be commenced at once.

The picker sits in a chair beside a box which holds the feathers and which is about the height of the knees. He holds the bird, back down, with the head secured between his knee and the box. The feathers are first picked from the under surface of the body, beginning at the posterior part and working towards the breast. When all the feathers have been removed from the whole body, the right hand is dampened and passed over the surface to remove the down. Pin-feathers must be taken out with a sharp knife.

The feathers are left upon the upper part of the neck and also upon the first joint of the wing. As soon as

the picking is finished, rinse the blood from the head and mouth, lay the carcass upon its back, press the wings against the body and tie a string around to hold them in position. The carcasses are then placed in cold water or ice water for an hour or two to plump them. In warm weather they are often kept in the ice water until sent to market; but some care is needed, as they are liable to damage by bleaching and becoming water-soaked. They are packed in broken ice and shipped to market in boxes or barrels.

The first green geese in the market sometimes bring as much as twenty-five cents a pound, making \$2.50 for a ten-pound bird, but if one-half this sum can be averaged the business is a very profitable one.—S. E. D.

### THE SCIENCE AND PRACTICE OF POULTRY FEEDING.—IX.

#### The Diet of Laying Hens. What is a Balanced Ration?

BY DR. D. E. SALMON.

**I**N DISCUSSIONS of the subject of feeding, we often hear the expression "balanced ration," and it is worth our while to consider just what is meant by this term and what constitutes a balanced ration for poultry. At present we will confine the inquiry to laying hens. In the writer's opinion, a perfectly balanced ration is one in which the protein, carbohydrates, and fats are present in such proportion, and in which the grains, green feed, vegetables, and animal food are so combined as to give the highest degree of health and vigor with the greatest egg production and at the same time maintain the body weight. It must be apparent, however, that what constitutes a perfectly balanced ration at one season of the year, or in one climate, or with one breed of fowls, may not be such at another season, in a different climate or with a different breed.

While it may be, and probably is, impossible to figure out a perfect ration suitable for all breeders, for all conditions, or for all breeds, it is possible to find the principles which apply to the problem and to define them so clearly that every intelligent poultry raiser may, by studying and experimenting, work out rations of special value in his particular case. Science has not yet done as much for poultry feeding as we might wish, but it has done enough to aid materially in this study, if the results of such investigations are properly applied.

It is commonly assumed that because an egg contains a large proportion of protein, the nutritive ratio in the diet should correspond, and that this ratio should, consequently, be a very narrow one. Is this conclusion correct? What grounds are there for accepting it? And what data have we for determining when the ratio is narrow enough? These questions are very important and can not be too carefully considered.

Mr. A. J. Silberstein, of Hartnest Farm, has recently contributed a very thoughtful article upon this subject to the *Reliable Poultry Journal*, from which the following is quoted as an example of the reasoning of one of our most intelligent poultrymen:

I have always proceeded upon the theory that dairymen generally concede, that a ration containing four and a half to five times the quantity of fat-forming chemical compounds, as it does of flesh-forming chemical compounds, or,



in other words, has a nutritive ratio of 1:4.5 to 1:5, produces best results. As this is the exact nutritive ratio of whole milk, why should not the same rule be applied to the hen? In other words, if a milch cow will do her best with a ration exactly equal to her product, why should not a hen do her best if fed a ration exactly equal to her product? The nutritive value of an egg is 1:2.5, and my efforts have been directed towards evolving a ration which, while affording the largest possible variety, shall be relished by the hens and analyze no higher than 1:2.5—will have but two and one-half times as much of the carbohydrates as it does of protein, the flesh-former.

Are there any fallacies in this reasoning? If so, let us try to find them, not in a spirit of captious criticism, but to get at the truth for the benefit of all. If there are none let us see to what extent the reasoning can be confirmed. In Prof. Atwater's latest publication on *The Chemical Composition of American Food Materials* the average composition of milk is given as protein 3.3, carbohydrates 5.0, and fat 4.0; this would give a nutritive ratio of 1:4.3. The nutritive ratio of the accepted feeding standards varies according to the quantity of milk that the animal is producing. These are reproduced for study in this connection:

| ANIMAL.                             | Per day per 1,000 lbs. live weight. |                 |                            |             |                          |
|-------------------------------------|-------------------------------------|-----------------|----------------------------|-------------|--------------------------|
|                                     | DIGESTIBLE NUTRIENTS.               |                 |                            |             |                          |
|                                     | Dry matter<br>lbs.                  | Protein<br>lbs. | Carbo-<br>hydrates<br>lbs. | Fat<br>lbs. | Nutri-<br>tive<br>ratio. |
| OXEN,<br>At rest in stall.          | 18                                  | 0.7             | 8.0                        | 0.1         | 1:11.8                   |
| MILCH COWS,<br>When yielding daily. |                                     |                 |                            |             |                          |
| 11.0 lbs. of milk.....              | 25                                  | 1.6             | 10.0                       | 0.3         | 1:6.7                    |
| 16.6 lbs. of milk.....              | 27                                  | 2.0             | 11.0                       | 0.4         | 1:6.0                    |
| 22.0 lbs. of milk.....              | 29                                  | 2.5             | 13.0                       | 0.5         | 1:5.7                    |
| 27.5 lbs. of milk.....              | 32                                  | 3.3             | 13.0                       | 0.8         | 1:4.5                    |

These standards are given for the middle of the lactation period, and it will be observed that with animals giving the largest flow of milk, the nutritive ratio of the ration is practically the same as that of milk. Taking the ration for oxen at rest in stall as approximately what is required for cows under similar conditions, and it will be seen that the increase for the production of milk is proportionately greater in protein and fat than in carbohydrates. That is, for the largest flow of milk, the protein of the sustenance ration is increased 370 per cent, the carbohydrates 62 per cent, and the fats 700 per cent.

It is interesting to compare the increase in the constituents of the ration with the nutritive substances in the milk, as follows:

|                                       | Protein<br>lbs. | Carbo-<br>hydrates<br>lbs. | Fat<br>lbs. | Nutritive<br>Ratio. |
|---------------------------------------|-----------------|----------------------------|-------------|---------------------|
| Ration for 27.5 lbs. of milk.....     | 3.3             | 13.0                       | 0.8         | 1:4.5               |
| Ration for animal at rest.....        | .7              | 8.                         | 0.1         | 1:11.8              |
| Increase to obtain milk.....          | 2.6             | 5.                         | 0.7         | 1:2.5               |
| 27.5 lbs. of milk contains.....       | .9              | 1.37                       | 1.1         |                     |
| Nutritive principles lost or gained.. | -1.7            | -3.63                      | +.4         |                     |

In order to obtain the large flow of milk, then, it is necessary according to the standards to add to the ration, required for sustenance, 1.7 lbs. of protein and 3.63 lbs. of carbohydrates over and above what is contained in the milk produced, but in doing this 0.4 lbs. of fat is gained in the milk over the increase of fat in the ration. Where does this fat in the milk come from? Chemists tell us that protein may be changed into fat within the body, and under the most favorable circumstances yields 51.4 per cent. If we assume such a change has occurred in the case under consid-

eration, then 0.78 lb. of protein has been used for making 0.4 lb. of fat; while 0.9 lb. of protein and 3.63 lbs. of carbohydrates have been required to make good the wear or waste of the organs (in digesting the increased ration, in pumping the increased supply of blood to the udder, and in maintaining the activity of the udder) and to supply the animal heat carried away with the milk.

Examining the question from this point of view, the writer is of the opinion, that the correspondence between the nutritive ratio of the ration for heaviest milk production and the ratio in the milk produced is accidental, and that with cows giving still larger quantities a narrower ratio than that in milk might be better, just as a wider ratio has been shown to be better with a smaller flow. In other words, we must consider more than the composition of the product yielded by the animal. The body is to be sustained, and the animal heat is to be kept up; and due allowance must be made for these requirements. As the temperature of birds is notably higher than that of cattle, and as the surface of the body relative to the weight is much greater, leading to a correspondingly larger loss of heat, it is plain that the maintenance of the body heat with these creatures, especially in winter, will have an important bearing upon the relation of the food constituents which should be supplied.

This view is confirmed by the rations found suitable for fattening animals. Thus, in fattening cattle the nutritive ratio of the standard ration is for the first period 1:6.5, and during the second period, 1:5.4. It has been found, however, that the increase in the animal contains about 8 per cent of protein and 65 per cent of fat; the ratio of the increase would, therefore, be about 1:18.7. Again, the nutritive ratio in the standard rations for fattening swine varies in the different periods from 1:5.9 to 1:7; yet the increase in weight of the animals has been found to consist of about 7.5 per cent of protein and 70 per cent of fat—the increase having a ratio of 1:21.4. Are not these facts conclusive in demonstrating that it would be unsafe to assume that the nutritive ratio of the ration should be approximately that of the product?

In order to show how closely we may balance the constituents of the ration against the requirements of the body and the egg contents, I have selected two periods in the experiments of the New York Experiment Station (Bul. 29, 1891, Pen 7). The pen contained six S. C. W. Leghorns and W. C. B. Polish hens and the periods were one month each. In the period from October 15 to November 15, the body weight was exactly maintained and only one egg was produced by the pen. The ration fed during the month may, consequently, be taken as the maintenance ration of these fowls. I have computed it in digestible constituents, for although we do not know the exact digestibility of foods with fowls, there can be little doubt that it is at least equal to what has been found with ruminants. Using the accepted coefficients of digestion the ration was as follows:

*Ration per Fowl, Pen No. 7, October 15 to November 15.*

| INGREDIENTS.    |      | DIGESTIBLE CONSTITUENTS. |                    |      |                     |
|-----------------|------|--------------------------|--------------------|------|---------------------|
|                 |      | Protein                  | Carbo-<br>hydrates | Fat  | Nutritive<br>Ratio. |
|                 | oz.  | oz.                      | oz.                | oz.  |                     |
| Corameal .....  | 1.14 | .079                     | .689               | .037 |                     |
| Corn .....      | .74  | .058                     | .462               | .030 |                     |
| Oats .....      | 1.11 | .119                     | .478               | .044 |                     |
| Red Clover..... | .40  | .009                     | .038               | .003 |                     |
| Total .....     | 3.39 | .265                     | 1.667              | .114 | 1:7.2               |



The average weight of this pen was 3 8 lbs.

The same pen of fowls had been fed the following ration during the period from April 15 to May 15, when they were laying:

*Ration per Fowl, Pen No. 7, April 15 to May 15.*

| INGREDIENTS.       |      | DIGESTIBLE CONSTITUENTS. |                    |      |                     |
|--------------------|------|--------------------------|--------------------|------|---------------------|
|                    |      | Protein                  | Carbo-<br>hydrates | Fat  | Nutritive<br>Ratio. |
|                    | oz.  | oz.                      | oz.                | oz.  |                     |
| Cornmeal .....     | 1.00 | .069                     | .605               | .032 |                     |
| Corn.....          | .58  | .046                     | .362               | .023 |                     |
| Oats.....          | .99  | .106                     | .424               | .039 |                     |
| Meat Scraps.....   | .21  | .114                     | ....               | .067 |                     |
| Corn Ensilage..... | .40  | .006                     | .046               | .004 |                     |
| Total... ..        | 3.18 | .341                     | 1.437              | .165 | 1:5.3               |

During this period the hens laid 27.60 ounces of eggs each, and the average weight of the birds was 3.8 lbs.

In order to compare these rations we must correct the maintenance ration so that it will apply to fowls of 3.7 lbs. weight, instead of 3.8 lbs. This is easily done by the formula  $3.8:3.7::265:257$ , the protein in the corrected ration, and in the same manner for the carbohydrates and fats. The maintenance ration for fowls of 3.7 lbs. weight would, therefore, be protein .257 oz., carbohydrates 1.616 oz., fats .110 oz. By subtracting this from the ration fed during the egg-laying period, we find the constituents used for the production of the eggs. This may be shown as follows:

|                         | DIGESTIBLE NUTRIENTS. |                |          |
|-------------------------|-----------------------|----------------|----------|
|                         | Protein               | Carbo-hydrates | Fat.     |
| Egg-laying ration.....  | oz. .341              | oz. 1.437      | oz. .165 |
| Maintenance ration..... | .257                  | 1.616          | .114     |
| Difference.....         | +.084                 | -.179          | +.051    |

That is, the egg-laying ration contained .084 oz. more of protein, .179 oz. less of carbohydrates, and .051 oz. more of fat. There were 27.60 ozs. of eggs laid per hen during the laying period and .35 oz. during the maintenance period—a difference of 27.25 ozs. Deducting from this weight 11.2 per cent for shell or 3.05 ozs. and we have remaining 24.20 ozs. or 807 oz. per day, of which 14.8 per cent is protein, and 10.5 per cent is fat. That is, these eggs averaged per day .119 oz. of protein and .085 oz. of fat. Now compare this with the excess of the egg-laying over the maintenance ration:

|                               | Protein  | Carbo-hydrates | Fats     |
|-------------------------------|----------|----------------|----------|
| Excess egg-laying ration..... | oz. .084 | oz. -.179      | oz. .051 |
| Constituents of eggs.....     | .119     | ....           | .085     |
| Excess unaccounted for.....   | .035     | .179           | .034     |

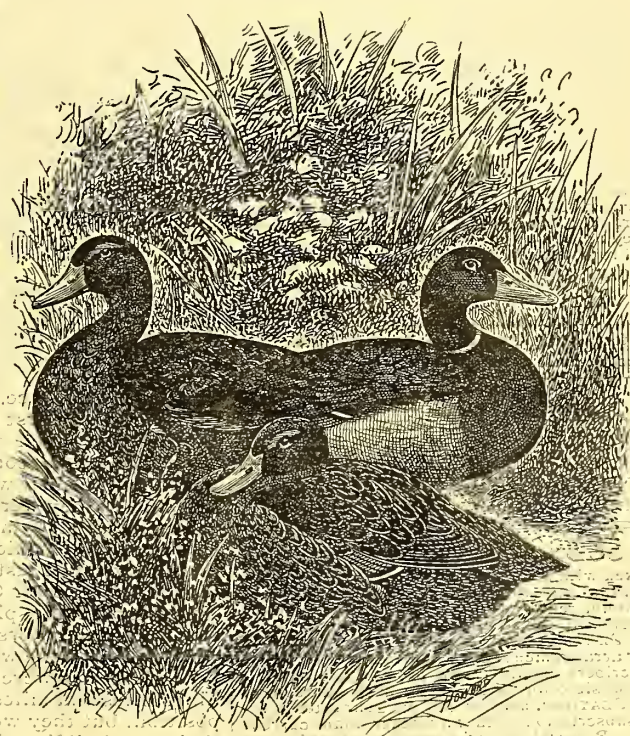
This shows that to balance the maintenance ration and the constituents in the eggs there should have been in the egg-laying ration .035 oz. protein, .179 oz. carbohydrates and .034 oz. of fat more than there was in it. As the eggs were actually produced, it is fair to ask where this excess of nutritive constituents which they contained came from. There is only one answer to this, and that is, they came from the bodies of the fowls. It was found that they actually lost .11 oz. in weight per day. If we add together the unaccount-

ed-for protein .035 oz., the equivalent of the carbohydrates (.179 oz.) in fat which is .078 oz., and the fat .034 oz., we have a total of .147 oz. of protein and fat which must have been drawn from the birds' bodies. As they actually lost .110 oz. in weight, the correspondence is striking, and as close as we can possibly expect our calculations to come considering the variations in digestibility of different samples of the same grain and differences between the same birds at different times.

Suppose, now, we take the egg-laying ration and add to it the constituents which were found in the above calculation to be lacking, we would have:

|                           | DIGESTIBLE NUTRIENTS. |                |          |                  |
|---------------------------|-----------------------|----------------|----------|------------------|
|                           | Protein               | Carbo-hydrates | Fat      | Nutritive Ratio. |
| Egg laying ration.....    | oz. .341              | oz. 1.437      | oz. .165 | 1:5.5            |
| Lacking constituents..... | .035                  | .179           | .034     |                  |
| Total.....                | .376                  | 1.616          | .199     |                  |

Is, or is not, this a balanced ration for Leghorn and Polish hens weighing 3.7 lbs. each, and laying an average of one egg every two days? Can any one who has studied the subject of poultry feeding answer this question?



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The Feather reaches the people that transact the poultry and pigeon business of the country. Its publishers have made a special effort to include among its readers all the most successful and most enterprising fanciers. Advertisers are often astonished by the large amount of business which comes to them after running their card a few months. There is no other medium which reaches so large a proportion of readers in all sections of the country who are able and willing to buy when they learn who are offering the stock or supplies which they need.

No advertisement will be inserted at any price from persons who are not responsible or who fail to deal honestly with their patrons. We particularly request our readers to notify us of any advertisers whom they believe to be dishonest or fraudulent. Honest advertisers will be protected—dishonest ones will be denounced.

New advertisements must be received not later than the 1st of the month. Copy for change of advertisement must be received not later than the 25th of the month preceding.

Remittances should be made by postal money order, registered letter, bank draft, or express money order.

All remittances should be made payable to

GEORGE E. HOWARD & CO.,  
S. W. Cor. 8th and H Streets, N. W.,  
Washington, D. C.

Entered at the Post Office at Washington, D. C. as second-class matter.

AUGUST, 1899.

**ADVERTISERS** Must have copy in for change of advertisement not later than the 25th of the month preceding. Copy for new ads must be received by the 1st of the month to insure insertion.

**TO SUBSCRIBERS.** When a subscriber finds this item marked with an X in blue pencil, he will understand that his subscription has expired, and that he should renew promptly before the next issue is published. We invariably discontinue sending THE FEATHER when the time runs out, unless other arrangements have previously been made. Subscribers should renew promptly, because it is impossible for us to supply back numbers of THE FEATHER, neither can we guarantee to begin subscription with any other than current issue. Renewal subscriptions are entitled to the privileges of the special offers and combinations as published in our columns.

**TO AGENTS** We offer the most liberal terms to agents, and our plans and arrangements are so liberal this season that there will be money in acting as a representative of THE FEATHER. We want new agents in every neighborhood in which we are not already represented. It will pay you to write us at once and get our terms. Good profits are to be made from the sale of our publications, and it will pay you well to investigate. Write us for full particulars and free outfit.

**Poultry Feeding.** In his valuable articles on the Science and Practice of Poultry Feeding, Dr. SALMON, has reached a most important part of his subject. The balanced ration for laying hens has been long

discussed without reaching very satisfactory conclusions. We can see now that those who have written upon this subject have for the most part lacked the knowledge required for its full consideration. Dr. SALMON gives us this month an example of a ration which maintained a pen of hens for thirty days, in the non-laying season, without any gain or loss of weight. He then gives the ration of the same pen for a month during the laying season, shows what part of it went to maintain the hens, what part went into the eggs, and to what extent the birds' bodies were drawn upon, to complete the ration. Not the least important part of this article is the illustration which it gives of the methods of calculating rations and of determining what becomes of the food after it is eaten. This article should be carefully studied by all of our readers.

\* \* \*

**Practical Articles.** The contribution on Goose Raising for Profit from the pen of our correspondent, S. E. D. is completed this month. The first part which appeared in our July number, attracted much attention and has been very highly commended. The author is well situated to learn the practices of our most experienced breeders of all kinds of poultry, and this with his own wide experience makes his writings of more than ordinary value. THE FEATHER has made arrangements to receive regular contributions on practical subjects from this correspondent and it is believed that they will prove helpful to all and be much appreciated. And this reminds us to say that those who wish reliable and up-to-date information will read THE FEATHER for the coming year. It will be better than ever before.

\* \* \*

**Incubators at Paris** We regret to learn that the exhibition of American incubators at the Paris Exposition next year is likely to be conspicuous by its absence. The manufacturers were at first enthusiastic and promised to open the eyes of people from the effete countries of the old world by the show which they proposed to make. They were intending to put in their largest machines and have thousands of chickens coming out every day. But just as their plans were made, the Director General poured ice-water down their spines with a decision that the incubators must go to keep company with the windmills at Vincennes. Not only were they doomed to exhibit miles and miles from the main exposition, but they were asked to put up their own building, install their exhibits, and care for them, all from their own pockets. This is too much to expect. Our incubators are undoubtedly the best and cheapest in the world, but they are made to be used by the hustling yankee; and while they should be shown to demonstrate our ingenuity and mechanical skill in this direction, it is doubtful if the foreign market would justify any manufacturer in going to the expense now required of him to make an exhibition at Paris.

\* \* \*

**New Subscriptions.** Many interesting things are promised the readers of THE FEATHER the coming season. Well-known and popular

writers on poultry topics have been at work on valuable manuscripts for publication in our columns. These articles are entirely new and original and will be found only in THE FEATHER. Those desiring the full list should not delay longer in sending in their subscriptions, but should promptly take advantage of the liberal offers which we are now making to new subscribers, and secure the articles. Each number of THE FEATHER contains a beautiful and artistic supplement, printed on fine paper and suitable for framing. These pictures alone are worth the price of a year's subscription. Begin your subscription with the September number.

\* \* \*

**Gratifying Results.** It is gratifying to note the general satisfaction that THE FEATHER has given its advertisers. The very many reports we have received from our patrons convince us that there is no better nor cheaper advertising medium for reaching the buying public than THE FEATHER. This is proven by the large number of advertisers who renew their contracts each year, and by others who increase their space owing to the good results obtained. The coming season promises to be the best in many years for poultrymen, and the early demand for stock is in excess of all previous years. September is an excellent month to begin advertising for the early trade, and those taking space now will have the advantage of our large special edition without extra charge. Copy should reach us not later than the first of the month for insertion in that issue.

\* \* \*

**A Great Show Indeed.** The development of the Poultry Department of the Hagerstown Fair has been marvelous. Through the energetic efforts of the superintendent, Mr. JOHN L. COST, this exhibit has grown from a first-class county fair exhibit into a full-fledged and up-to-date poultry show. Each succeeding year it has been necessary to add new buildings or provide other accommodations for the large entry of poultry and pigeons. This year is no exception to the rule, as it is necessary to erect another new building, 30x100 feet, to coop the birds, to be shown there this year. Every indication points to the largest event yet held at this thriving place, and THE FEATHER is pleased to note the marked success of this annual event. It is an excellent show, and is well-managed, well judged, and well thought of by all who exhibit there.

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**A Wonderful Bird.** The supplement, Buff Cochin Female, which accompanies this number of THE FEATHER, is one of the most satisfactory pictures we have yet published. The model for this drawing is the beautiful pullet bred by Oakland Farm, that was an easy winner in her class a year or so ago. That she is a beauty no one will deny, and the drawing is a faithful representation of this truly wonderful bird.

The two plates, "An Interesting Family" and "African-Emden Cross," used in Goose Raising for Profit, this issue, were drawn from prints in bulletin issued by the Rhode Island Experiment Station.



Below we publish a few of the large number of reviews and testimonials that have reached our office concerning our great book "The Diseases of Poultry," by D. E. Salmon, D. V. M. We know this is the best and most reliable book on the subject published in this or any other country. These few comments will vouch for our statements in this matter, and we want every reader of THE FEATHER to have a copy of this book. It will prove itself your friend and will help you out of many difficulties. See the ad on next page and do not fail to send for a copy of the first edition.

"The Diseases of Poultry," by D. E. Salmon, D. V. M., is before us. It is a valuable work.—*Inter-State Poultryman*.

It is an exhaustive treatise of 250 pages on a very important subject, well written, illustrated, and printed.—*The American Fancier*.

"Diseases of Poultry" is very complete in every way, illustrated throughout, and any poultry raiser, large or small, can not well afford to go without a copy.—*Pigeon News*.

This book is certainly the most complete and reliable book ever published on the subject, and should be in the hands of every successful poultryman.—*American Poultry Advocate*.

I have received and examined Dr. Salmon's book, "Diseases of Poultry." It is the best book published on the subject, and the best for the price—50 cents—that I have ever seen. It will certainly be a large and rapid seller. Send me 100 additional copies.—EDWARD S. SCHMID.

A new book of great value to poultry keepers is "The Diseases of Poultry," by D. E. Salmon, chief of the Bureau of Animal Industry. It has 250 pages and is profusely illustrated. All ailments of poultry are comprehensively yet concisely treated, and there are chapters devoted to vermin, vices, etc.—*The Pacific Bee*.

Probably no one is better fitted to treat this subject than Dr. Salmon, chief U. S. Bureau of Animal Industry, and the work in hand testifies as to his ability. The book is well gotten up, with numerous illustrations, and treats quite exhaustively and scientifically the various diseases to which poultry is subject.—*The Kansas Farmer*.

One of the most complete and reliable books ever published on the subject is entitled "The Diseases of Poultry." After a careful reading we do not hesitate to recommend it, and believe it should be in the hands of all poultrymen. It is written by D. E. Salmon, D. V. M., chief of the U. S. Bureau of Animal Industry.—*The Farmer's Guide*.

"The Diseases of Poultry," by D. E. Salmon, D. V. M., chief of the Bureau of Animal Industry, is an up-to-date work and a book for the times. Every person who has fowls of whatever description ought to have one. It is to fowls what the physician is to the family. There are seventy-two illustrations showing the effects of disease, causation, symptoms, and treatment.—*The Record*.

I have been fancying poultry and reading journals and books of all kinds for thirty years. I have just read Dr.

Salmon's "Diseases of Poultry," and it affords me great satisfaction to be able to say that this is the most complete work on the subject that I have ever read. While it covers every known form of fowl ailments the subjects are treated so cleverly and intelligently that the beginner, as well as the veteran and expert, will find in the book a broad field of information.—DR. W. J. ELSTON.

"The Diseases of Poultry," by D. E. Salmon, D. V. M., chief of the U. S. Bureau of Animal Industry, is a 250-page treatise on the diseases to which fowls are subject, is written in plain style and in detail. The illustrations are numerous and valuable, in number no less than seventy-two. Simple diseases, those more intricate, complications, etc., are treated in a masterly manner, and it is evident the author is familiar with his subject in no common degree.—*The Canadian Poultry Review*.

"The Diseases of Poultry" is the title of a new book which treats of the diseases encountered in the poultry-yard, and handles the subject in a very complete and scientific manner. Dr. D. E. Salmon, the author, is chief of the U. S. Bureau of Animal Industry, and has for a number of years given attention to poultry diseases. The book contains seventy-two illustrations, which serve as helps in diagnosing diseases. We can supply this valuable work for 50 cents a copy.—*Farm-Poultry*.

We have received a copy of the book, "Diseases of Poultry," by Dr. D. E. Salmon, chief of the Bureau of Animal Industry. It is a book of 250 pages and cover. It is well printed on good paper, and most profusely illustrated. It is the most important book ever issued in America on the subject, and the most complete published anywhere, considering the illustrations to explain the text. The only criticism we have is that fewer technical and scientific names might have been used, and the book thus been more easily understood by the mass of those who have need of such a treatise.—*Poultry Monthly*.

This most valuable book is by Dr. D. E. Salmon, chief of the Bureau of Animal Industry. The name of its author is, to the well-informed, a guarantee that its statements may be taken as absolutely reliable. The book contains 250 pages, has numerous and accurate illustrations, and its descriptions of the diseases and enemies of poultry are so clear, and the methods of preventing and eradicating them are so practical that we take pleasure in commending it to our readers as by far the most valuable work on this subject we have seen.—*National Stockman and Farmer*.

Another notable book just issued from the press is one entitled "The Diseases of Poultry," written and compiled by Dr. D. E. Salmon, of the U. S. Bureau of Animal Industry, Washington, D. C., and published by George E. Howard & Co., publishers of THE FEATHER. Despite the fact that we issue a pamphlet entitled *Reliable Poultry Remedies*, we are free to say that this new book by Dr. Salmon is the best work on the subject issued to date. It is scientific and practical in its treatment of the diseases of fowls, is the product of many experiments and much study, is well illustrated, handsomely printed, and is, withal, a most valuable addition to poultry literature. It is bound in heavy

paper cover, and sells for the low price of 50 cents a copy.—*Reliable Poultry Journal*.

The most valuable book of its kind. The poultry fraternity is to be congratulated for having one of such extended education and capability as Dr. D. E. Salmon prepare for them a book on the diseases of poultry of such value as the one just issued by the publishers of THE FEATHER. This work shows the results of careful study and extended research through many experiments. No book on kindred subjects has ever come under our observation of equal merit. The study of its pages throws much new light on many subjects.

Chapter VI. of this work is of much value to all. Its careful study brings to our attention the much-considered question of infertility of eggs. We hope to see the Doctor continue his research and study of these questions, for through such channels only can we hope to gain real information. We say hens are too fat to lay, or so fat their eggs are not fertile, but no one tells us why a hen is too fat to lay, neither do they tell us why the infertile egg is so, only too fat; at the same time they loose sight of the fact that a hen may be too thin or poor to lay.

The combination of great wisdom in the Doctor and ability to illustrate in the editor of THE FEATHER gives us a book of more than usual value as an educator both in word and object lesson. We feel assured that this work must meet with hearty approval in the hands of all.—T. F. MCGREW.

"Diseases of Poultry" is the title of a work of 248 pages, by D. E. Salmon, D. V. M., chief of the United States Bureau of Animal Industry. It is printed from large type, on good paper, the impression being clear, and its value enhanced by illustrations.

Dr. Salmon's high reputation in his profession, and the fact that he has for years given close attention to the diseases of poultry, are a guarantee as to the character of the work. An examination of it proves that it is precisely what it purports to be, a systematic treatise on the subject.

The author, after making some observations on the magnitude and importance of the poultry industry, describes in a general way the conditions that are essential to success in it. The chief thing, of course, is the ability of those engaged in it to "keep their birds thriving, vigorous, and free from disease." He then proceeds to tell his readers how to do this. Covering the entire range of diseases, he takes them up in their order, first giving the nature of each malady, next its cause, then its symptoms, and finally the treatment of it.

The illustrations in the book are an efficient aid to a correct understanding of the structure and function of the various organs of a fowl. Without this knowledge any attempt to treat disease is worse than folly, for it is likely to do more harm than good.

With this treatise in his possession every breeder should be able to treat the ailments of his fowls with a fair degree of intelligence, but what may be regarded the greatest value of the book is the excellent instruction it gives on how to prevent diseases.—*Ohio Poultry Journal*.

Read the combination offers in this number.



**Chicken Chatter.**

J. W. STURMAN, Salina, Kans., writes, "THE FEATHER and *Poultry Keeper* are my favorite journals. I am pleased to speak a good word for them."

The several numbers of THE FEATHER and "Money in Squabs" received safely, and I am much interested in them. Many thanks.—L. HARPUR, Boston, Mass.

F. S. BULLINGTON, Richmond, Va., sends us some very pretty feathers from his Buff Cochins Bantams. The color is excellent. He breeds the "Old Gold" strain.

J. W. TURNER, Big Sandy, Tenn., subscribes to THE FEATHER among a number of other poultry papers, and writes that he considers it a valuable publication.

We are in receipt of a letter from Messrs. W. A. BOYLES & SON, Mead-

ville, Pa., in which they say, "Your paper is O. K., we are more than pleased with same. It did us good."

O. M. MAURHOFF, Saxonburg, Pa., writes as follows: "I have been receiving THE FEATHER for several months and find it the best poultry paper published. Its supplements are fine."

"I have a Silver Wyandotte pullet," says E. B. LEEK, of Amagansett, N. Y., "which I bought March 1st. She was laying then, and laid 107 eggs before she became broody. I am going to see how many eggs she lays in a year, and will report."

"How the ducks do fly," writes F. A. RAPPEYE, Farmer, N. Y., "that is, the White Muscovy Ducks that we advertised in your most valuable journal. About the time this reaches your desk, one shipment will be on board an Atlantic steamer."

THE FEATHER acknowledges receipt of a copy of "The Langshan Fowl, Its History and Characteristics," by A. C. CROAD, London, Eng. The book is a very valuable contribution to poultry literature, and a most excellent work on a most excellent breed of fowls.

GEO. H. MCLAREN, Newburyport, Mass., one of our subscribers, had an interesting experience with snow birds. He had one come to his home in the first of last winter, take up an abode in his barn, go away and return with five others. He is much interested in them and feels proud of their company.

A. J. BLANCHARD, Meadville, Pa., one of our subscribers, is an enthusiastic breeder of Buff Cochins, Blue Andalusians, and Single and Rose Comb Brown Leghorns. He has a very fine plant, and is very proud of his birds. He is also superintendent of the annual show of the Meadville Fanciers' Club.

## The Greatest Book of the Day

### FOR POULTRYMEN!

# THE DISEASES OF POULTRY

BY D. E. SALMON, D. V. M.

Chief of the U. S. Bureau of Animal Industry, Dean of the Veterinary College of the Columbian University, Honorary Associate of the Royal College of Veterinary Surgeons, Ex-President of the U. S. Veterinary Medical Association, Fellow of the American Association for the Advancement of Science, &c.

Is the Only Reliable, Practical, and Authentic Up-to-date Work  
Published on the Diseases of Poultry.

## It is

The only modern book on this subject in the English language.  
The only illustrated book on poultry diseases.  
The only systematic and thorough book.  
The only book that will tell you how to keep your fowls free from disease.

THE book has twelve complete chapters treating on all known diseases which affect poultry. It has 248 pages, and 72 handsome illustrations. This great book is printed on finest calendered paper, handsomely bound in heavy covers, and weighs exactly one pound.

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Price, 50 cents. Clubbed with THE FEATHER one year for 75 cents.

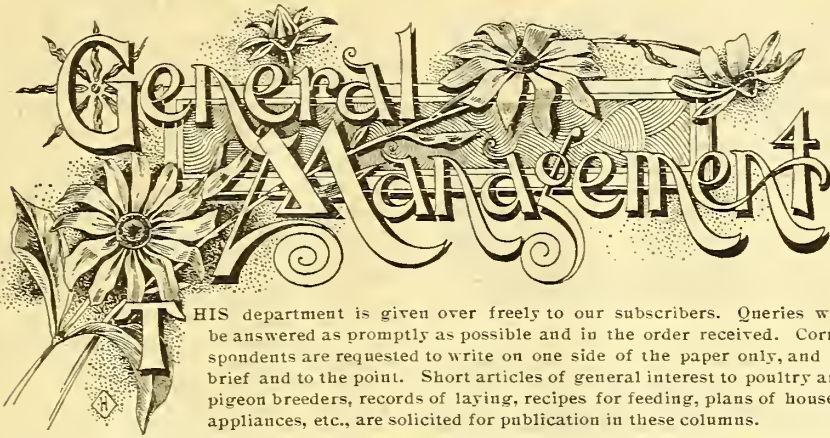
**GEORGE E. HOWARD & CO.,**

PUBLISHERS,

S. W. Cor. 8th and H Sts. N. W.,

WASHINGTON, D. C.





THIS department is given over freely to our subscribers. Queries will be answered as promptly as possible and in the order received. Correspondents are requested to write on one side of the paper only, and be brief and to the point. Short articles of general interest to poultry and pigeon breeders, records of laying, recipes for feeding, plans of houses, appliances, etc., are solicited for publication in these columns.

### Molting—Feed.

Editor The Feather:

Now that the molting time has arrived a few hints as to feed, care, etc., may be of benefit to some of us. The breeder has all the work he can do, and at this particular time his work must not be neglected, for he must be careful with his stock now so that they will come out of molt in good condition.

Now if any one of your fowls that you want to use for a breeder has had the roup, canker, or any of the diseases of a diphtheritic or hereditary nature, discard that fowl, no matter how valuable it may be, for you will surely regret it in the future if used. Keep only such fowls in your yard as are in perfect health and that have descended from fowls of healthy and strong constitutions, as by that means only can you breed strong, vigorous, healthy fowls. After you have culled out all of the sick and weak birds, remove all of your male birds from the females, and place them in separate houses and yards by themselves, for that is the only way you can keep your cocks and cockerels in good condition so that they will be in proper shape when you mate them up the following January or February as the case may be; and should you want them for exhibition purposes then you can get them through the molt and put them in proper condition by show time. It is very important that they should be in the very best of condition at this time, as it often carries great weight with the judge to see birds (as they should be) in the very best of condition. Then again, females in molt do better by themselves, and put on their pretty dresses much more rapidly when not kept with males.

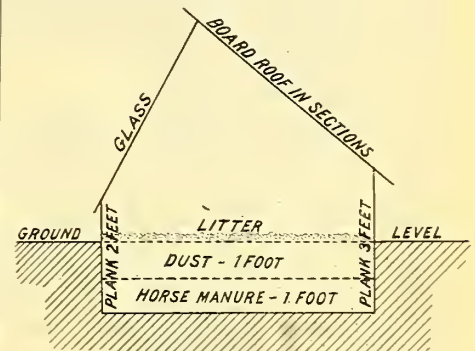
After the separation of the male from the female the very next thing, and the most important, is the feed. I feed a mash, and I have tried it in the morning and I have tried it at night. If fed at night during summer it is liable to sour in the crop, and cause bowel trouble and other kindred diseases. If the mash is fed in the winter-time it must be made of warm and fattening material, and that is just what the man does not want who is looking for eggs to make them pay their way when eggs are eggs, and bring a good price. But feed them the mash in the morning, in the winter-time especially, as it warms up their crops. Give them about one-half as much as they would eat, and then throw some of the smaller grain in the scratching-pen so as to put them to work for it.

Now, Mr. Editor, I see some of the poultry papers advise their readers to

feed only twice a day, morning and evening. Now, I claim that it does not make any difference how many times a day you feed your fowls, providing you do not overfeed. That is the bone of contention, and I have found that fowls in confinement must be treated differently from those that have free range. The last thing at night, just before closing up, if you throw a few handfuls of wheat or millet seed in the scratching-shed, you will find your fowls hard at work when you come around in the morning to give them their breakfast of mash. After breakfast give them fresh water; for dinner, vegetables; and two days in the week, sometimes three times a week, give them, one ounce to the hen, of good, fresh, green cut bone; and their supper should be a good full feed of grain. I feed the mash, vegetables, and green cut bone on boards instead of troughs, as the boards are easier cleaned. I use three or four of them so that there will be no crowding at meal time. Always remember that it is absolutely necessary for those boards to be kept clean, and that all of the eating and drinking vessels should be as clean as hot water, soap, scrubbing-brush, and sand can get them, for "cleanliness is godliness" in the poultry business, that is, if you want to succeed in it.

The evening feed should be given about two hours before dark, in the scratching-shed, (if you have not built a scratching-shed do so and watch the results). Always keep about six or eight inches of straw in the scratching-shed, and as soon as it gets broken up fine and packed hard, so that the grain

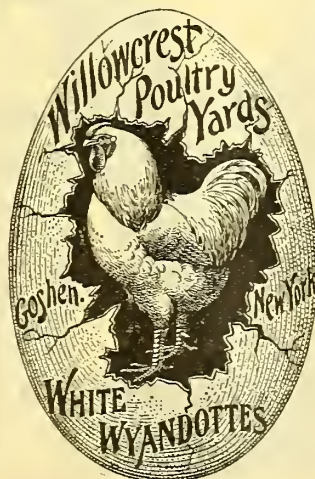
will stay on top, clean it out and renew it with new long straw or hay. The evening meal should be a full feed—all they want—but should be fed in the scratching-shed so that they will have to work for all they get. That is the one thing you should teach them. No work, no grub. Vary the feed and you will keep them in good condition. Don't give them a mixture of grains, but keep the grain in separate boxes or barrels, so that you can give them just what you want them to have. One day give a little wheat in the morning and clipped oats at night. The next day, barley in the morning, cracked corn at night; next, wheat or oats in the morning, barley at night; and so on. It will make a change. Millet seed is a good thing to feed even if it is dear. Sunflower seed is also a good thing to feed, especially to the dark or black varieties, as it helps



PLAN OF SCRATCHING-SHED.

to give us that grand luster to plumage; but avoid giving them too much, as it is very fattening, and give them very little corn. When you give them whole corn, parch it well and you will find it very beneficial in many ways and helps their digestion.

Now we come to the morning feed. The mash is the most particular part of the feed, for in the mash we can give them just what we want them to have, and then we are sure they have eaten it. In the first place, in mixing it make it as dry as you can, and if the hen wants it wetter she can go wash it down with water, just as we do when we eat our own meal, for we don't take water with our soup, but we generally do take a little something with bread and meat or crackers and cheese; so will the hen



300

## WHITE WYANDOTTE

Hens For Sale at from \$1 to \$3 each,

—AND—

### ...40 COCK BIRDS...

\$2 and \$3 each.

Must Have Room for Young Stock.

THE HOME

....OF THE

## WHITE WYANDOTTE,

Willowcrest Poultry Yards,

J. E. WHITE, Manager.

Goshen, N. Y.



with dry mash. My way of preparing the mash is as follows: Take one bushel cornmeal, one bushel bran, and one bushel middlings. Mix these together well, and of the mixture take one quart. Add one quart of ground oats, one-half pint of animal meal, (I use Smith & Romain's B. B. B.) to this add one tablespoonful of linseed or flaxseed meal, one heaping teaspoonful of salt, one heaping tablespoonful of pulverized charcoal, and if in dry weather one teaspoonful of sulphur twice a week; and again in winter we add one teaspoonful of red pepper, and during the molting season one heaping teaspoonful of Sheridan's condition powder (there are others I suppose as good). I scald the mash about 6 a. m. in winter and 5.30 a. m. in summer, and one hour after, if cool enough, I feed it. Now this is the amount I am feeding to fourteen old and twenty-two young, three-months-old chicks. This will be enough feed to give the old one-half as much as they would eat and gives the young a full feed. The old I give some wheat or millet seed in the scratching-shed to again put them to work.

The mash must be changed just as well as the grain, and in winter when we can not give our fowls all of the vegetables, grass, etc., that they should have, then we give them twenty-five per cent in bulk of Pioneer clover meal in the morning mash; that is, if we give them two quarts of mash we put in one pint of the clover meal. We often put one quart of the clover meal in a bucket at night, pour boiling water over it, and let it stand until morning; then put it in the kettle, bring it to a strong boil, and mix the morning mash with it; and you will find it one of the best feeds you can possibly give them. Then again in the spring we leave out the middling, as it is a good egg-food but it has a tendency to make the eggs smaller; but during molt we add it to the mash for two reasons. First, it makes a change in the mash; second, it helps the fowls, and also pushes the young. At other times we leave out other parts of the mash and use other things, such as potatoes, turnips, cabbage, etc., anything for a change. Keep all of your grain and meals in separate boxes and barrels, and then you can feed them just what you want them to have, and exactly as much of each as you think best. Keep them in good condition and do not get them fat. Make them work for the largest part of their feed. By that method you will keep them in good condition and your eggs will be of a good size, and coming from strong, vigorous stock will hatch well, even in a bad season as this one has been. This year I only had one bad report and plenty of good ones. See THE FEATHER for June.—E. D. CROUCH.

#### The Show Season.

Editor The Feather:

The show season will soon be upon us, and we must keep our birds growing. They must be fed the proper food to produce muscle and bone, but not fat; they must have lots of shade and good fresh water. Young stock, as Cochins, Plymouth Rocks, or Wyandottes, should weigh from three to three and one-half pounds the first three months of chickenhood, and should gain one and one-quarter pounds each month thereafter. The bird that has grown right along is the bird that wins the prize. They have the weight and the plumage. I have grown birds—Plymouth Rocks—in

five months to be standard weight and over. Do not feed too much meat as it forces the combs and makes the cockerels fight among themselves. I have had to part them and stop the use of meat altogether.

In September the show season begins. April and May-hatched chickens should be near the standard weight by this time. Be careful in selecting your show birds. There is where so many good breeders get defeated. They leave their best birds at home. Do not pick the largest bird on account of weight, but pick the medium-sized bird that has standard weight. Compare the bird with your Standard as near as possible; wash the bird and have him in prime condition, and ship in a large roomy coop so that the feathers will not be broken on arrival at the show. If the bird is cooped properly at the show he should now be in fine condition for the judge, providing the attendant has not transferred your bird by one leg, wing, or tail, and broken the sickle-feathers or soiled him in other ways. I have stood by in the largest shows in this country and seen the birds transferred as stated above.

I was attending a show this last winter in New York State where there was

the best class of White Plymouth Rocks brought together. The judge started to judge them but could not, and called upon a prominent judge for assistance in the work. The first judge said the whitest bird must win, and it did, regardless of shape. The awards were placed on the so-called white ones. The class was made up of some very white, and others not so white. If I understand the Standard correctly it does call for snow-white birds. This same judge has judged at other shows and gave the creamy birds the preference over the stay-white birds. Now, the question is, does this judge understand judging or not? I think not. Because he has judged at different shows and placed awards one against the other.

I think the breeders should wake up and join the clubs of the variety they breed, and the clubs should select their own judge at the largest shows. Then I think there would not be so much dissatisfaction between breeder and judge. I hope the time will soon come when all clubs will be selecting their own judges, and by so doing have better shows.—FRED. HUYLER.

The Diseases of Poultry, by Dr. Salmon, now ready. Price, 50c. postpaid.

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## Maple Grove Poultry Farm

L. O. BROMLEY, Prop.,  
Forestville, N. Y.



### Single Comb Brown Leghorns.

I exhibited this season in N. Y., Pa., and Ohio, 21 birds and won nine 1sts, five 2ds, four 3ds, one 4th, and one 5th; seven out of 21 scored 94-95. Eggs and stock to sell. Catalogue.

They will  
Win for You.

**Trafford's Buff Rocks** Are Coming to the Front.  
Have proved themselves to be winners for his customers in the best shows in the country (I have the proof) and they will do the same for you. All stock shipped on approval. Trafford's Liquid Lice Formula, 25c, warranted to kill all kinds of Lice, Mites, &c., by simply painting drop-boards, &c. No handling.  
HENRY TRAFFORD, Chenango Forks, N. Y.

## S. C. BROWN LEGHORNS AND BARRED PLYMOUTHS

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Brightwood Farm,  
Laurel, Maryland.

Barred Plymouth Rocks,  
White Wyandottes.

If looking for early-hatched show birds write me. I have January and February chicks that can win at the fall shows. 300 grand chicks for sale. Also Scotch Collie puppies and grown dogs of the choicest breeding, champions Christopher, Wellesbourne, Charlie Southport, Perfection, Sefton, Hero, and other good blood. Satisfaction always guaranteed. Address,

M. E. PHELPS,  
Laurel, Maryland.  
Late Manager Uplands Poultry Farm.



## Bran as Food.

*Editor The Feather:*

I see in a late number of THE FEATHER bran highly praised as a poultry food. I use tons of it, but do not use it alone as it is recommended in that article. I well know fowls will eat it but I very much doubt if they can digest more than one-half of it. I noticed when I helped my father that when he fed bran alone the droppings of the fowls and chicks consisted largely of whole bran flakes; not only once, but every time bran was fed alone.

I like one-half or a little more by measure of bran and middlings moistened with milk. If no milk, I put in a little meat. I am not sure this is all digested but the droppings look all right. I would like some State institution to test the two feeds for us and report. I know one thing, the hens will lay lots of eggs and chicks grow like weeds when fed the mixed ration as I have outlined for fowls, with wheat in the morning, and corn in the evening.

For chicks I like one-half or one-third cornmeal, one-third bran, and one-third middlings, two pounds of meat to ten quarts of dry feed, and a little condition powder. Plenty of corn in the morning, the mixed mash at 10 and 2 o'clock, and corn, or corn and wheat in the evening, is my way of feeding young stock when they have a free range. But mind, I fill them full, not a half feed. I have seen too many flocks ruined by about half enough. The trouble is when poorly fed disease in the form of roup will almost surely enter, and there is no reserve force to combat it. Then the gain is so great no one can afford to not feed well, yet those who need the early-matured stock and the best prices it will bring seldom get them. I know it takes some grit of two kinds when you have a large flock to keep putting wagon-loads of feed into it, yet if you know your trade it will pay well. If you have midsummer or late summer chicks feed them a generous, yes, more than a generous, ration of flesh and bone-forming food like the mash above. Give them a warm, sheltered building when the cold fall winds come with part of their grain feed buried, and you can develop fine stock, but if you neglect plenty of good, rich food; neglect to see if the mites are on their roosts; and, in fact, if you haven't mastered pretty well just what they need every day, (don't forget that it must be seven days a week) you will fail to bring them up to the highest notch that is latent in their blood.

It is impossible to raise fine, big roosters or show stock without eggs from such stock, but when I see so many ruined chicks, ruined because of improper feeding, principally not enough, I think there is more need of teaching proper feeding than proper mating, but let both go hand in hand.—W. W. KULP.

Plymouth Rocks.  
Wyandottes.

Annual closing out sale at phenomenal bargains of yearling breeders. It gives vim and bounce to a breeder to own some of Wilson's world-renowned Buff Rocks. The price will make it profitable to buy now, and not wait for

chicks. This really means a trifle of money for quality. Write,  
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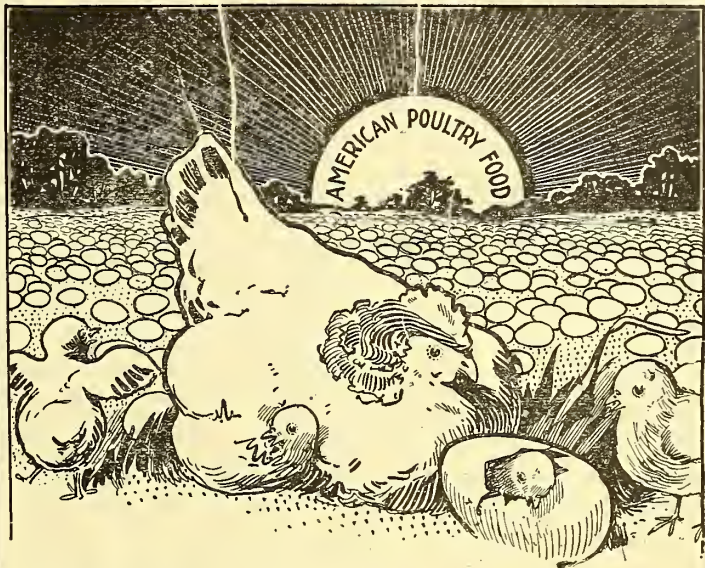
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**American  
Poultry Food****Does the Other Half***A Pure Grain Food in Sealed Sacks.*Not a Medicine.

It develops young chicks rapidly, permitting of their early market at highest prices and brings pullets to laying maturity very rapidly.

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CONDUCTED BY J. C. LONG, NEW YORK CITY.

### Homing Pigeons as Medical Messengers.

For several years the undersigned has had under consideration Homing Pigeons as medical messengers. My correspondence with doctors who use them for this purpose, and also information obtained in medical journals and books bearing on the subject, so encouraged me that I was induced to invest in some of the "Belgian Homer" Pigeons, and now have established a loft of aerial messengers as part of my equipment as a medical practitioner.

The young birds now under training encourage me to say to THE FEATHER readers that my expectations have not been dimmed, and I am convinced that if medical men will look into this matter, if they have not already done so, they too will find it feasible. In order to have the Homing Pigeon serve me in an efficient manner, I am having the entrance to the loft connected with electric bob-wires, so that when a bird returns home with a message from a patient, the alarm will be given at my office and residence, just as soon as the bird returns and is passing under the bob-wires into the loft.

Just inside the bob-wires is a cage or box, placed in such a manner as to make the pigeon messenger a prisoner until the message is secured. Professor Marion of the U. S. Naval Academy has invented a capsule in which the message to be sent is placed, and then the capsule is fastened to the pigeon's leg.

The loft need not be expensive; a space in the barn eight by twelve feet and six feet high and about ten feet from the ground is room enough for thirty Homing Pigeons. As a special house was needed, for want of room in the barn, the writer had constructed a loft as follows: Size, six by eight feet, with eleven feet studding. Five feet from the ground a floor was placed, leaving the upstairs, or loft proper, six by eight by six feet. The downstairs is enclosed with poultry wire; the upstairs, first with tar paper, then ship lap. Trapdoors through the floor permit the birds to come down to the ground, a much-needed recreation for the old birds, that can not be given their liberty, since they will leave you if an opportunity presents itself. It is the young birds hatched from your loft, or those you get when just old enough to ship (about six weeks old), that can be trained for messenger service. When three or four months old, by taking them several miles from their loft, east, west, north, and south, and letting them fly back home. This is to be repeated and each time the distance increased, until the remarkable distance of 100 to 1,000 miles may be attained, at the rate, for the shorter distances, of an average speed of one mile per minute.

Though much interest has been manifested in this subject not many doctors to my knowledge, have undertaken to secure for themselves the service of these wonderfully clever aerial messengers. I can now speak with more assurance that they are indeed feasible. I receive messages from my patients in the country every day, in addition to my daily visits to them. My plan usually is to leave a pigeon the day I make a visit and direct that the pigeon be liberated the next morning about 8 o'clock, with such a message as I may desire, e. g., the record of temperature, pulse, number of stools, etc.

With a little care in the instruction of the nurse, I am quite well informed of the condition of my patient before I start to make my next visit, just the same as the doctor becomes informed of his hospital patient, by first examining the record of the patient kept since his last visit. In a country practice this is even more important, as it enables the doctor to judge what will be needed for his patient the next twenty-four hours, for we country doctors must act as our own druggists. Then again, country doctors can not often make more than one call in twenty-four hours, and by an aerial messenger service he can get practically the same information as the doctor in city or hospital practice who makes several calls, by simply leaving two pigeons and getting an evening and morning report. The doctor who has a country practice is often called from his country patient to other persons sick in the neighborhood. This will make him late in getting back to his office, and it will be a great convenience if he can send this information home, practically with the same speed as the city practitioner through the medium of the telephone system. That we can remain in closer touch throughout an illness of our country patients there can remain no doubt, a fact that will be appreciated by most patients and their friends.

Further information concerning Homing Pigeons as medical messengers will be found from time to time in THE FEATHER. But I would suggest that physicians wishing to take this matter up in earnest and receive benefit and pleasure from these aerial messengers, first of all purchase only the best kind of Belgian Homing Pigeons, one or two pairs well mated. No reliance can be placed in young birds shipped to you, for message carriers. The young birds must be hatched from your own loft. The old birds that you secure for breeding must not be given their liberty until they have hatched one or two broods from your own loft. The youngsters, at a certain age, can be trained as stated in my former letter.

PHILIP ARNOLD, M. D.

### Five-Hundred-Mile Birds.

The most successful race ever flown by the Washington District from a distance of 500 miles took place June 20, nineteen birds performing the feat of flying this distance before the close of day. Five hundred and eighty-three birds were shipped June 14 to Hardeeville, S. C., consigned to W. J. Evans, to whose careful handling much of the credit is due. Owing to unfavorable weather conditions the birds were held over until the 20th, when the liberator wired: "Birds liberated at 5 a. m.; weather clear and calm."

Over the entire course the birds were favored with a southerly wind. The following is the average speed of the birds which returned June 20.

H. M. Dickinson, 1,145.60 yards; H. Sarton, 1,136.98 yards; W. E. Wood, 1,128 yards; C. F. Hengesbach, 1,111.61 yards; W. L. Bishop, 1,102.85 yards; P. Kraus, 1,101.19 yards; J. Garner, 1,094.22 yards; H. K. Bliss, 1,093.93 yards; C. F. Hengesbach, 1,088.39 yards (two birds); W. L. Bishop, 1,087.17 yards; W. K. Goodman, Jr., 1,086.13 yards; H. K. Bliss, 1,085.32 yards; W. J. Callahan, 1,076.31 yards; H. K. Bliss, 1,057 yards; F. E. Young, 1,055.81 yards; F. E. Young, 1,051.35 yards; James Greenwood, 1,005.89 yards; C. F. Hengesbach, one day.

For second-day records the following number of birds were reported from each loft: H. M. Dickinson, 13; W. E. Wood, 2; W. L. Bishop, 4; P. Kraus, 7; W. R. Goodman, 1; W. J. Callahan, 1; F. E. Young, 1; J. T. Eider, 1; J. Greenwood, 1; C. W. Henderson, 2; A. C. McLean, 4; W. F. Dismer, 5; H. C. Wall, 1; C. W. Roth, 1; A. H. Thomas, 4; L. B. Nye, 2; H. Raeder, 2; J. Vierkorn, 1; R. Thompson, 1; C. A. Lewis, 2; and H. Lewis, 1.

### Homers Lost.

Editor The Feather:

I have lost three Homers banded G. 14,853, N. A. 11,825, and K. 11,563. Will appreciate a report of them.—O. M. Maurhoff, Saxonburg, Pa.

### You Will Regret It.

You will regret it if you do not order now and make sure of a copy of Dr. Salmon's valuable book on Diseases of Poultry. Price 50 cents postpaid. GEORGE E. HOWARD & Co., Publishers, S. W. Cor. 8th and H Sts. N. W., Washington, D. C.

**SPECIAL OFFER.**—Will dispose of a limited number of August, September, and October Homer youngsters at \$1.50 per pair. Have also a few choice cock birds for sale cheap. THE IDEAL LOFT, E. L. BARCLAY, Proprietor, 812 21st St. N. W., Washington, D. C.

## Poultry Plant For Sale.

### A Great Bargain.

60 acres—3 laying houses (capacity 800), 2 brooder houses (capacity 4,000 chicks), houses modern and convenient in every way. Windmill and water-tank; 3 cottages, 2 barns, sheds, etc. Young orchard of about 1,500 trees. About five miles to town of 3,500 and city of 20,000. In mountains, fine climate, fine views, elevation 1,100 feet. Satisfactory reasons for selling, given if desired. Will be sold at great sacrifice if taken at once.

Walter Watson,  
Salem, Va.



## Shows and Associations.

At a meeting of the Butler County (Ohio) Poultry, Pigeon, and Pet Stock Association it was decided to give a poultry show in Hamilton, Ohio, November 28 to December 4, 1899. W. S. Russell, of Iowa, was secured as judge. The secretary is W. W. Stevenson, Hamilton, Ohio.

The Dorchester and Milton Poultry, Pigeon, and Pet Stock Association, of Dorchester, Mass., has elected the following officers for the ensuing year: President, Thomas W. Pond; first vice-president, B. P. Look; second vice-president, George Simpson; secretary, Thomas Leavitt, Dorchester, Mass.; treasurer, Ernest R. Wendemuth; board of directors, Thomas W. Pond, B. P. Look, George Simpson, Thomas Leavitt, E. R. Wendemuth, H. S. Fraser, W. H. Chubbuck and W. J. Whelan. The association has voted to hold a show this fall. As liberal a classification as that given last year will be given, and competent judges will be selected to place the awards.

The members of the Elmira Poultry Association have elected the following officers for the ensuing year. President, B. G. Smith; secretary, Judd H. Johnson; treasurer, F. L. Landon; first vice-president, C. E. Howell; second vice-president, H. E. Benedict; third vice-president, E. H. Mead; inspectors of election, S. H. Laney, W. R. Shappee and William P. Colvin. The directors are C. E. Howell, E. W. Andrews, B. G. Smith, Max Wheadon, G. M. Diven, 2nd, H. E. Benedict, F. L. Landon, O. M. Beadle, Judd H. Johnson, H. B. Sheeley, H. B. Batterson, James McCann, Jr. They will hold their fourth annual exhibition December 4-8, 1899. The association will spare no pains to make this one of the best shows of the season.

The National Exhibition Game and Game Bantam Club has kept quiet for two months, a long time for "pushers" to be silent, but we want the public to miss us and this brief notice is inserted simply to tell you why you ought to miss us if you don't, and that even if we are not in print in every issue of every paper, we are working in other ways and are moving along just the same. Our membership is constantly growing, and the steadily increasing interest in our club and in the varieties we represent is most satisfactory. It all presages a happy future for the Games and Game Bantams, and a rousing big annual show next year. Every one who has the welfare of these varieties at heart should hasten to join the club and unite their efforts with ours for the furtherance of our laudable plans. The annual circular will soon be issued and you will make a mistake if you fail to have your name and address appear therein.—J. C. PRATT, secretary, Chicago, Ills.

At the eighth annual meeting of the American Plymouth Rock Club, held at Toronto, the following officers were elected for the ensuing year: W. S. Russell, president; F. J. Marshall, L. J. Jarvis, J. Y. Bicknell, J. H. Thompson, Jr., Philander Williams, Theo. Heves and J. F. Crangle, vice-presidents; E. L. Miles, E. S. Hickman, Sid Conger, A. C. Smith, F. H. Shellabarger, and A. H. Lake, executive committee. H. P. SCHWAB, Rochester, N. Y., secretary and treasurer.

It was voted at the meeting that the club next season offer a silver cup at one of the principal shows held in each

state having more than ten members, only members to compete.

Twenty-three new members were admitted, the total now being close to 200. This number should be greatly increased. We want all the breeders and fanciers of Barred Rocks with us, for the stronger we are the more we can accomplish. This club must be as superb as the bird it represents. A new catalogue is soon to be issued. It will be an ideal book, valuable for reference, as it will contain carefully prepared special articles touching upon all questions relative to the breed, by our best writers.

To derive the full benefits of the club you want your name to appear in this book. Now is the time to make application. Write me to-day. The initiation fee is \$1.00, annual dues 50 cents. Lady breeders admitted free. Further information cheerfully given.

H. P. SCHWAB, Sec., & Treas., Rochester, N. Y.

The American White Minorca Club has been organized, and the following officers elected: President, J. W. Lyder, Akron, Ohio; vice-president, W. W. Browning, Ogden, Utah; secretary, Wm. Sapper, Erie, Pa.; treasurer, C. W. Jerome, Fabius, N. Y. These officers also comprise the executive committee.

Honorary vice-presidents are to be appointed, one for each State, from among the most prominent White Minorca breeders, to assist in maintaining the interests of the White Minorcas and of the members of the club. The popularity of the White Minorcas among those who know them best is significant of their future possibilities and of the popularity they are bound to enjoy as their many good qualities become better known and consequently appreciated.

They are worthy of our best efforts and skill in breeding them to the highest possible type. All breeders of the White Minorcas are cordially invited to join the organization, and to assist in placing our favorites where they deserve to be placed, among the most popular breeds of the twentieth century. By so doing you will serve your own interests, while serving them. And our united efforts should accomplish much for this noble breed in the years to come, which is the aim and purpose of the American White Minorca Club. The membership fee is \$1, which together with \$1 for the first year's dues, should be sent to—Wm. SAPPER, secretary, Erie, Pa.

## The Next Meeting.

Editor The Feather:

By a vote of the Executive Committee the twenty-fourth annual session of the American Poultry Association will be held in the city of Cedar Rapids, Iowa.

The following is the result of the vote on place of meeting:

Whole number of ballots cast, sixty-three; New York City received one; Detroit, Mich., two; Jackson, Mich., five; St. Louis, Mo., seven; Chicago, Ill., twenty-one; Cedar Rapids, Iowa, twenty-seven.

By order of the president, the meeting is called for Wednesday, January 17th, at 8 o'clock p. m.

Fraternally,  
H. A. BRIDGE, Sec'y-Treas'r.  
ALLEN BOGUE, President.

The Diseases of Poultry, by Dr. Salmon, is the most useful book published for poultrymen. Price, 50c. postpaid. GEORGE E. HOWARD & Co., S. W. Cor. 8th and H Sts. N. W., Washington, D. C.

# Creolene Poultry Paint.

The Best Vermin Destroyer  
...on the Market...

Can be used with perfect safety and is guaranteed to free your poultry and buildings of all mites and lice if used according to the printed directions on each can.

We are also Manufacturers of

# Carbolized Dust

For dusting-boxes, dropping-boards, &c., &c. Takes away all moisture of droppings and makes your house healthy, thus preventing diseases in your poultry. Why pay 20 to 30c. per lb. for lice powder when our Carbolized Dust will do the same thing at 1-30 of the cost. Put up in cotton sacks at the following prices:

50 lb. sack 50c.  
100 lb. sack 90c.  
1 ton \$16.

We will pay a reward to any one who will prove our goods are not as represented.

We want an active agent to work for us in each State and County in the United States, a chance for you if you are a hustler, if not we do not want you. Write at once as these goods will be placed on sale in your town, and why not be the one to make some money?

## A COMBINATION OFFER.

To introduce our goods to all of the readers of THE FEATHER we will give for the next 30 days one Gallon of our Creolene Poultry Paint and one Sack of Carbolized Dusting Powder for \$1, and ship promptly on receipt of order. Remember that all of our goods are fully guaranteed.

We are, also, manufacturers of all kinds of

Roofing Materials, Paints, &c., &c.

Cattaraugus Roofing  
& Paint Company,

Salamanca, N. Y.



## THE BUSINESS WORLD.

As Viewed From the Columns of The Feather.

A SUCCESSFUL, PRACTICAL POULTRY FARM.

BY WM. H. RHEES.

To those who are interested in raising thoroughbred poultry, nothing is, perhaps, more enjoyable and profitable, than a visit to the yards of famous fanciers, or successful poultrymen. Generally a hearty welcome is given the visitor and many helpful hints, together with information that is the result of years of experience, are obtained by those who do not impose on a busy worker in business hours.

Many poultry farms and fanciers' places have been described in articles in the various poultry journals; but few have been written up that are devoted to the production of poultry and eggs for the general market. Most of these farms are not anxious for publicity; and selling their products at wholesale, or to regular private customers, have no need to advertise, and so are known to but few people. That these practical farms do exist and are paying their owners a good profit, can be proven by those who take the time and effort to search for them.

Those who imagine that all large poultry plants must end in failure and financial wreck, should take a trip to New England; and here at the birth-place of the thoroughbred poultry industry, it will be possible to find successful practical poultry farms devoted exclusively to the business. In no other section of this country can be found such a high degree of excellence attained by so many breeders of fancy fowls, or by those who raise market poultry. This condition has not been achieved in a day or a week, but is the result of many years of labor in the mating and breeding towards certain standards, by energetic, persevering fanciers. Nor has the business side been neglected, for much of the general success is due to the pioneer work in educating the poultry buyers to recognize and appreciate the high quality and possibilities in market poultry. With the demand for the best came better prices and larger markets.

At the present time the occupation of raising high-grade market poultry requires as much ability, energy, and experience as any other agricultural pursuit. The result has been that better prices are obtained for the highest grades of poultry and eggs in the Boston markets, than in any other city in this country. A description of a visit

by the writer, to one of these practical poultry farms may be of interest and value to the many readers of THE FEATHER.

About twelve miles west of Boston, near the enterprising manufacturing city of Waltham, is located the Kirwin Poultry Farm, owned and managed by Mr. Walter J. Kirwin. After the train had passed a few miles by the city famous the world over for its watches, the cars were left at a small station. We enjoyed the walk through the woods, amid the rocky and picturesque scenery familiar to all who ever visited New England. A short tramp and we reached the poultry farm of W. J. Kirwin. Here is found the plant of a successful, practical poultryman, one whose efforts are directed to the production of fertile incubator eggs and market poultry. Mr. Kirwin began poultry raising years ago and has gradually developed it into an extensive and profitable business, devoting his time and farm to this occupation. He is what we call a "bread and butter poultryman," meaning by that term a man who derives his living

also used for grinding feed, bones, etc. Steam is utilized for cooking the feed (morning mash) and to warm part of the house when used to raise young chicks.

The first floor is partly a granary and contains the bone and grist mills, etc. On the second floor is an office and room for general storage.

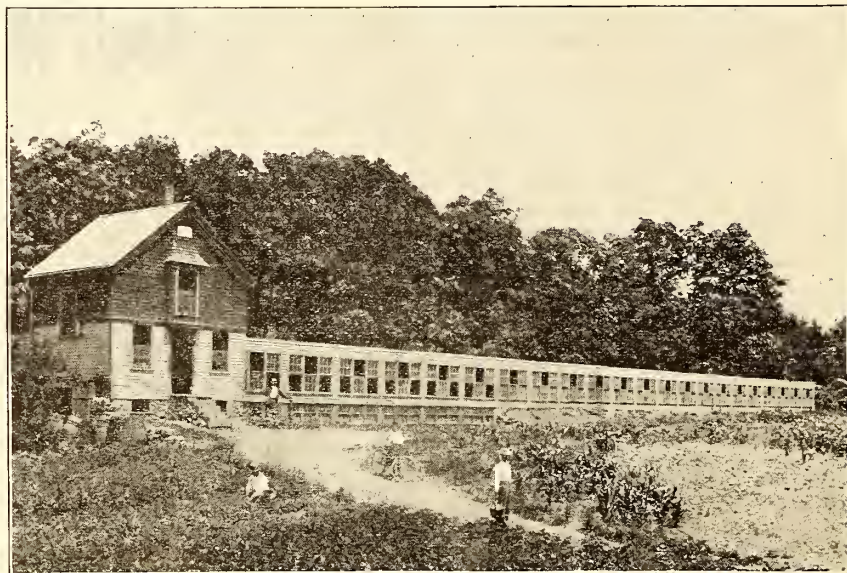
The main building is divided into pens twelve feet wide and ten feet long, opening into each other by doors in the partitions near the windows. These doors hang on spring hinges and open either way. Thus every foot of space is in use by the fowls, and it seems more economical and almost as convenient as having a long passage-way or hall cut off from the pens. At any rate, this plan of the doors is used in many successful long poultry-houses in this section. There are three good-sized windows to each pen, the sashes sliding up and down. This really makes the entire front of glass, considerable more than can be found in most modern hen-houses, but Mr. Kirwin claims this has proven quite satisfactory, even in the coldest weather.

The stock is mostly Barred Plymouth Rocks, selected for practical rather than fancy points. There are about twenty-five hens and two males in each pen. About 500 females and forty males are kept during the winter, and 1,000 chicks are raised every year.

Nothing makes profit or loss on a poultry farm quicker than the manner of feeding the stock. Right here the practical man uses common sense learned by experience to save dollars, while the inexperienced loses dollars in trying to gain common sense.

Mr. Kirwin feeds his old fowls twice a day, in winter. The morning feed is a mash of ground oats, cornmeal, barley, wheat, small potatoes, boiled ground bone and meat; all cooked by steam in a jacket kettle. Fish is also fed once or twice a week in place of the bone and meat. He believes that green bone is too fattening for laying poultry. Enough is given at each meal, and some is left over so that the weak ones may get their share as well as the strong ones. At 2 o'clock, during the winter, the hens are given free range if the weather is good. The afternoon feed is whole grain, wheat, oats, and corn, mixed sometimes for a change with barley and buckwheat. The pens are covered with rye straw for litter, in which is thrown the grain, cabbage, turnips, and cut clover hay, when birds are not fed outside. In the fall three acres of winter rye are planted in front of the henhouse, which takes the place of other green food when fowls can get outdoors.

We asked Mr. Kirwin to give us his method of raising young chicks. Hen power is used entirely for hatching and



W. J. KIRWIN'S POULTRY PLANT.

entirely from his poultry. Such men are rather scarce. Poultry raising is generally not the only occupation, and hens are generally a side issue to farming, various trades or a profession. Mr. Kirwin deserves all his success. He is a Yankee straight through, earnest, energetic, and a pusher with the keenest judgment that shows how to turn everything toward a profit. Doing nearly all his own work he has been able to learn by experience the best and most economical methods for his business. It is just this fact of being right with the hens and the ability to quickly determine causes and results that forms such an essential part of the life of prosperous poultry raisers.

The poultry buildings are located on a gentle slope of ground and are protected on the north by a steep, rocky hill well covered with forest. The plant consists of a main building 460 feet in length and several smaller ones. In the center of the plant is the feedhouse, two stories high, with a cellar. In the cellar are the engine and boiler used for pumping water into a large tank in the attic holding 800 gallons. Power is



rearing. As to incubators, he supplies every year about 12,000 eggs to customers using machines, but as yet has not adopted them, saying he has not the time or money to experiment and knows what can be counted on from natural methods. Barrels with lath front are used for coops, and it is a queer sight to see hundreds of these scattered all over the grassy slope or under the trees of the large apple orchard. The hens are kept confined in coops for four days and after that have free range with their brood of chicks until the latter are six weeks old. When the chicks reach this age several broods or about sixty chicks are placed in a small house. These houses are built with open sides, tight roof and floor, and are three feet in front and two feet high at the back. They are movable and are generally placed in a mowed field. Chicks remain in these until the cockerels are killed for market and pullets are placed in winter quarters.

During the first two weeks young chicks are fed five times a day, at 6, 9, 12, 3, and 6 o'clock, on crackers and milk. Waste crackers are obtained at a low price from bakeries, and milk is hauled from the creamery. Care is taken that the feed is crumbly, not soggy. Granulated oatmeal and millet seed are valuable to feed for variety, during the first few weeks; after that chicks receive the same kind of feed as old fowls.

The chickens are marketed when they dress four pounds apiece, or when about four months old. Prices received range from twenty-five to forty cents per pound from May to August at wholesale. Mr. Kirwin has the reputation of being an expert in preparing poultry for the market, and his services are in demand by neighboring poultry raisers. The breeding males, except three or four, are all sold in June; this gives the hens and pullets a rest. In September all hens over two years old are sold. A specialty is made of supplying eggs for incubator hatching, and patrons are supplied with many thousands each season at \$5 per 100 or \$40 per 1,000. The surplus are sold to a select family trade at twenty-five to forty-five cents per dozen.

During the past two seasons a growing demand has come for what are called "squab broilers." These are chicks hatched in January or February, and are sold when weighing from a pound to a pound and a half each, for from eighty cents to \$1 a pair. There are not enough raised to supply the market.

The details and methods used on Kirwin's Poultry Farm have been given with the hope that they may be of benefit, and suggest ideas to some beginner. While this plan is successful in this case, under these conditions and surroundings, no set of iron-clad rules can be furnished whereby success can be attained by all in practical poultry raising. When poultry keepers learn how and what to adopt and select suitable to their own location, surroundings, markets, and aims, more than half the battle is won.

'It is an encouragement to those who are gaining knowledge of what is the best way for them, in the slow and tiresome school of experience, to remember that others have succeeded and that practical, prosperous poultry farms do exist,

#### PREPARING BONES FOR FEEDING TO DOGS.

E. C. Stearns & Company, Syracuse, N. Y., manufacturers of the Webster & Hannum bone cutter, send us the following interesting reader from Mr. P. H. Jacobs on the utility of the bone cutter for preparing feed for dogs.

"It is known that meat biscuits are expensive and for that reason many who enjoy keeping dogs as pets refrain from so doing. The digestive apparatus of the dog is such that it can digest large pieces of bone that would prove fatal to some animals, its liver being large and its secretion of gastric juice and other "digestors" or "solvents" being about the normal quantity. Dogs are also capable of masticating small bones and can utilize all kinds of bones to advantage if they are not too large to be reduced so as to be swallowed. This difficulty is now easily avoided by the use of the bone cutter, which prepares green and fresh bone in a manner to render them not only more acceptable to the dog, but also quickly and easily; in fact, the bone cutter now so largely used for reducing bones for poultry, is really more serviceable for the dog than for fowls. What the feed cutters and grinding mills are to cattle and horses the bone cutter is to the dog.

"When a mass of bones have passed through the bone cutter the result is what might be termed "bone sausage", which has the appearance of sausage but which is in a complete condition for use by dogs, as the bone is in a much freer state than when it is usually swallowed by the animal.

"Dog meat, as prepared with the bone cutter, may be kept for months even without protection from the air by first cutting the bone and adhering meat with the bone cutter and subjecting the meat to the fumes of burning sulphur, which is done by placing the meat in a box having a lid (such as an old trunk), setting fire to a few spoonfuls of sulphur, closing the lid and keeping it closed for about twenty minutes. A sulphur candle is excellent for this purpose.

"The sulphurous acid gas not only destroys and prevents decomposition and destroys the germs of disease, if any, but preserves the cut bone for six months or more.

"To make dog cakes, take one pound of cut bone, one pound of middlings, two pounds fine cornmeal, and one tablespoonful of salt; mix thoroughly, and bake hard in thick cakes like crackers. The use of cut bones for dogs makes the cost of keeping dogs but very little, as it will not be necessary to purchase meat. Of course, any variety of food as an addition will be an advantage, but the cut bone will so greatly reduce the expense as to render any additional cost only a trifle, and one owning a bone cutter would probably find it profitable to cut bones and sell such reduced food to owners of dogs."

#### BARRED ROCK NUMBER.

The September issue of the *Pacific Poultryman*, Harry H. Collier, editor, Tacoma, Washington, will be devoted to

Barred Plymouth Rocks. As this number will also be the fair number of the paper, it will be distributed at the following big fairs: The Oregon and Washington State Fairs, the Provincial Fair of British Columbia, the Spokane Fruit Fair, and all the County Fairs in the State. Those who desire any of the business in the Northwest should take space in this number.

#### A TESTIMONIAL.

Allegheny, Pa.  
Messrs. H. D. Mason & Sons,  
Fabius, N. Y.

DEAR SIRS: I received the Golden Wyandotte pullet on Saturday all right, and I am very well satisfied with her. I think she is a fine pullet. I will get some eggs from you next spring.

Yours truly,

J. B. FOSTER.

## Hagerstown,

OCTOBER 10-13, 1899.

THE Poultry Exhibit at the Great Hagerstown Fair this year will excel all previous efforts at this show center. Additional new buildings have been erected to accommodate the large list of entries.

## DON'T MISS...

This great event, but write for premium list and entry blanks to

JOHN L. COST, Superintendent,  
Hagerstown, Md.



## WE PAY SALARY

to sell our new oil gas burner, just patented, heats any cook stove or range, makes gas out of coal oil, one-half cheaper than any other fuel. Bakes and cooks perfectly. Write for Free Circulars giving terms & showing burner in operation. COLUMBIA OIL GAS BURNER CO., Washington, D. C.

## ..American Homing Review..

A Semi-monthly Journal of Information concerning the Breeding, Care, and Training of Homing Pigeons, Published by

HOWARD CARTER, Brooklyn, N. Y.  
495 Fourth Street, Editor and Publisher.

Sup't U. S. Naval Homing Pigeon Service, N. Y.  
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with the Excelsior Incubator. Thousands in successful operation. Simple, perfect, self-regulating. Lowest priced 1st-class hatcher made.

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is guaranteed to hatch a larger percentage of fertile eggs at less cost than any other hatcher. Geo. H. Stahl, 114 to 122 S. 6th St., Quincy, Ill.

## MOST NOTED STRAINS.

Pairs, trios, pens of B. P. R., Sherwoods, Cornish I. Games, White and Silver L. Wyandottes, Buff Leghorns, Blk. Javas, breeders of 1899. Young stock of same breeds; also Buff Wyandottes and Buff Plymouth Rocks Sept. 1st. No more eggs this season. Prices right.

A. R. MARKLE, Tyrone, Pa.

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We want an agent in every county in the United States to sell our medicines. Can make from \$6 to \$10 a day without risk. Work easy and pleasant for man or woman. Write for circulars and terms.

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### READ CAREFULLY.

Copy may be changed as often as desired, though we advise running a standard ad. when possible, in order that buyers may become acquainted with it. Length of ad. is not limited, but additional words will be charged at the rate of 1½ cents each for one insertion, or 1 cent each for each insertion when run three times or more. Initials and figures count as single words.

### PLYMOUTH ROCKS

#### BURDICK'S YEARLY SALE OF BUFF PLYMOUTH ROCKS.

Now "Old Glory" proudly waves o'er Porto Rico: The Philippines are ours, and Cuba free; Vast armies must be paid, you can meet the taxes laid,

By breeding Burdick's "Nuggets," don't you see?

My strain is well known as producing the winners at all the leading shows, Chicago, '99 included. I now offer over 100 first class breeding hens, 30 yearling cocks, 500 young birds. Exhibition birds a specialty. Everything reasonable. Breeders, \$2 up. Write letters to H. S. BURDICK, Rome, N. Y.

**WHITE ROCKS EXCLUSIVELY.** Bred for practical and exhibition purposes. Two firsts and one second from three entries, Hagerstown, 1898. First and second hens, second cockerel, Washington, D. C., 1899. Eggs, \$1.50 per 13. Stock for sale. J. F. DEFANDORF, Garrett Park, Md.

**BARRED ROCKS EXCLUSIVELY.** (Thompson strain). Choice cockerels, pairs, trios, and pens at low prices after September 1st. My six yards of one-year-old breeders for sale now. Satisfaction guaranteed. H. E. KIPP, Red-Hook-on-Hudson, N. Y.

**THE UP-TO-DATE STRAIN OF Barred Plymouth Rocks.** Catalogue for stamp. Stock for sale. Eggs, \$1 per 13. Guarantee satisfaction. If you wish high quality at a fair price, Address, J. M. PORTER, Morristown, N. J.

**EGGS FOR SALE—\$1 per 15.** Barred Plymouth Rocks, Single Comb Brown Leghorns. From first-class stock well mated. Address, GEORGE W. DUVAL, Box 131, Coal Centre, Washington County, Pa.

**BARRED PLYMOUTH ROCKS exclusively.** A giant cock weighing twelve pounds in ordinary breeding condition. Hens up to ten pounds, good color, bright yellow legs and beaks. Setting, \$2.50. MILTON H. TAYLOR, Box 55, Masontown, W. Va.

### LEGHORNS

**CEDAR HILL POULTRY FARM—**Write to Cedar Hill Fruit and Poultry Farm for prices on Single Comb Brown Leghorn, Barred P. Rock, Buff Cochins and Light Brahma fowls and eggs. Some fine surplus cockerels of first-named breeds for sale low. Eggs for incubator use \$5 per 100; good common eggs (large breeds), \$2.50 per 100. R. S. COLLE, Harmans, Md.

**FORSYTH STRAIN S. C. BROWN LEGHORNS.** 33 prizes on 33 entries at Rochester, Hamburg, Dansville, N. Y. Old and young stock cheap, that will score into the 90's. FRANK G. RICE, 9 West Avenue, Dansville, N. Y.

**LEGHORNS EXCLUSIVELY.** Tenth season. Eggs, \$1. HOWARD A. PINNEY, Sheffield, Warren Co., Pa.

**WE HAVE LAYING QUALITIES,** size, typical shape, standard color, in S. C. B. Leghorns; what more can you ask? Eggs, \$1.50 per 13; \$2.50 per 26. W. B. GERMAN, Specialist, Millville, Pa.

**50 C. PER DOZEN, \$3.50 per hundred,** Wyckoff strain. White Leghorn eggs. Circular free. S. J. BISHOP, Cheshire, Conn.

**CHOICE UP-TO-DATE STOCK** of Single Comb Brown Leghorns and Silver Laced Wyandottes. Stock for sale. Satisfaction guaranteed. Eggs, \$1 per 13. If you wish fine quality and fair treatment, address J. M. PORTER, Morristown, N. J.

**BUFF LEGHORNS.** 15 eggs \$1. Best catalogue ever issued on this peerless breed. V. MARKEN, Frederick, Md.

**PLEASANT VIEW POULTRY YARDS.**—Rose Comb Brown Leghorns which have again been winners at all the leading shows. 1st cockerel at Madison Square Garden, 1st cockerel at Boston, 1st cockerel at Hagerstown, 1st cock at Mt. Gretna. Stock for sale at all times at reasonable prices. Eggs for hatching, \$1 per setting. Address, W. G. FRONHEISER, Prop., Pottstown, Pa. J. B. HOFFMAN, Mgr., Sanatoga, Pa.

### BRAHMAS

**CHESTNUT GROVE POULTRY YARDS** JOSIAS J. GEORGE, Proprietor. Yards at Jenkins P. O., Long Green Valley, Baltimore Co., Md. City address, 443 North Street, Baltimore, Md. Light Brahmata Exclusively. Early-hatched cockerels and pullets for sale. Cockerels, \$3 to \$5; trios, \$5 to \$8. Yard headed by cockerel 1st prize at Washington, 1897.

**CHOICE UP-TO-DATE STOCK** of Light Brahmata, the Duke of Morris strain. I have the cream of the late Stephen Spencer's stock in my yards. Stock for sale. Eggs, \$1 per 13. Satisfaction guaranteed. J. M. PORTER, Morristown, N. J.

### WYANDOTTES

**WYANDOTTES, GOLDEN, BUFF, AND** Partridge, McKee strain, winners at Chicago, Washington, D. C., Davenport, Iowa, Mid-Continental, Kansas and Nebraska State shows. Stock and eggs for sale. Send stamp for catalogue. W. A. DOOLITTLE, Sabetha, Kan.

**SILVER WYANDOTTES EXCLUSIVELY.**—Winners, layers, and fine table fowls. Steinmesche strain. Best matings. Satisfaction guaranteed. Write your wants to J. M. HAMBLEN, HIGHLAWN FARM, Vienna, Fairfax Co., Va.

**SILVER WYANDOTTES.**—I have for sale 15 cockerels for \$2 to \$5; 1 cock \$3; 12 females \$1 to \$3. Satisfaction guaranteed. R. G. WILLIAMS, Barre, Mass.

**BUFF WYANDOTTES EXCLUSIVELY.** Good size, shape, and the true buff color. Fertile eggs, fifteen for \$1.50; thirty for \$2.50. Fine young stock for sale. W. P. PRATT, Chatham, N. Y.

**EGGS THAT WILL HATCH** from best strains White Wyandottes and Single Comb White Leghorns, \$1.50 per 15; \$5 per 100. Satisfaction guaranteed. W. E. SHOEMAKER, Laceyville, Pa.

**HEAVY LAYING** White Wyandottes, S. C. Brown Leghorns, Barred Plymouth Rocks. Eggs, \$1 per 15; \$3 per 50; \$4 per 100. Stock at fair prices. F. E. & W. K. PEASLEE, Fernandina, Fla.

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**BLACK MINORCAS EXCLUSIVELY.** (North) up strain.) Fine, large, vigorous, healthy birds, bred from my Washington prize winners. Stock and eggs for sale in season, good hatch guaranteed. THE FEATHER, one year with egg order. E. D. CROUCH, 1013 G Street S. E., Washington, D. C.

**BELMONT STRAIN BLACK MINORCAS** contains the best Minorca blood in the country. They are all standard weight or over, and are extra-good in all other points, especially as layers. Eggs at \$1 per 13, and satisfaction guaranteed, or I will refund your money. Write me. O. W. TAYLOR, Tyrone, Blair Co., Pa.

**CHAMPION B. MINORCAS AND B. T. JAPANESE Bantams.** Most fashionable and prize-winning strains in the land. Stock for sale, and eggs in season. Mention this paper. H. B. GREGORY & SON, Akron, Ohio.

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**BLACK LANGSHANS** and White Plymouth Rocks. Choice strains of both breeds. Eggs for hatching \$1.50 per 13. I have some fine Langshans for sale. FRANK I. AHERN, Box 51, Laurel, Md.

### BANTAMS

**HOW IS THIS?** Washington, Hackensack, Elmira, and West Chester, Hartford, Boston, and New York, 30 entries, 34 prizes on Silver Sebright Bantams. Stock for sale. Sell no eggs. A. C. TREICHLER, M. D., Elizabethtown, Pa.

**AT WASHINGTON, D. C.,** won 15 prizes on 15 entries, on Golden and Silver Sebrights, Silkies, Bearded and Non-bearded White Polish, Buff, White, Black, Partridge, and Cuckoo Cochins, Brown Red, Red Pyle, and Birchen Game Bantams. No eggs. Stock for sale. W. W. WALLICK, York, Pa.

**COCHIN BANTAMS.**—Buff, Black, and White. If you are in want of Cochins Bantams write and see what I can do for you. ROWLAND G. BUFFINTON, Box 677, Fall River, Mass.

**BEAUTIFUL COCHIN BANTAMS.**—Buff or Black. My breeding birds of past season for sale at \$3 per pair. WM. M. CONNERS, Box A, Weston, Somerset Co., New Jersey.

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**HOUDANS AND WHITE HOLLAND TURKEYS.** High-class stock, with free range. Houdan eggs, \$1 per 13; \$3 per 40. Turkey eggs, \$2 per 11. G. A. HOBART, Chittenango, N. Y.

### INDIAN GAMES

**CORNISH INDIAN GAMES,** Carpenter's prize-winning strain. The Gentleman's Fowl. Stock and eggs for sale. Also breed first-class Black Minorcas, Barred Plymouth Rocks and Muscovy Ducks. H. M. CARPENTER, Sing Sing, N. Y.

### ORNAMENTAL

**RING NECK MONGOLIAN OR ENGLISH Pheasants.** Birds and eggs for sale. Eggs, \$2 per 15; can hatch under chicken hens. MARTIN DIETRICH, Box 493, Fulton, N. Y.

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**ENGLISH RING NECK PHEASANTS.** Eggs for sale. Three dollars per doz.; from as fine birds as any in U. S. WALTER GURNEY, 105 Mathews Street, East Akron, Ohio.

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**C HAMMERSCHMIDT,** 1849 Seneca Street, Buffalo, N. Y., headquarters for large Belgian Hares, bred up to standard in size, color, and weight. Old and young for sale. Also breeding does (in young if desired). Guarantee to please customers.

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**G A. FICK,** 1300 N. Washington Street, Baltimore, Md., breeder of prize winners, Magpies and Swallows in all colors. Prices reasonable considering quality of stock.

**FOR SALE, EXHIBITION BIRDS** in Pouters, Carriers, Bloudinettes, Satinettes, Silverettes, Turbits, Frillbacks, Swallows, Snells, Archangels, Dragoons, Tumblers, Moorcats, Magpies, Owls, Nuus, Bruner Pouters, and Black Baldhead Tumblers. Satisfaction guaranteed. J. H. MEHRING, Littlestown, Pa.

**FOR SALE CHEAP.**—25 pairs old breeding Homers, Tumblers, Fantails, Magpies, Pouters, Jacobins. Young birds of all kinds. My prices are right. LARRY F. GOLDY, East Third Street, Williamsport, Pa.

**FOR IMMEDIATE DISPOSAL.** Lot of high-class fancy pigeons. Address at once, N. KOHL, Jr., 819 Maine Street, Quincy, Ill.

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**IMPORTED BELGIAN HOMERS** and best American stock in mated pairs and G-banded youngsters, for sale at a very low price; also all varieties Long Muffed Tumblers, Red, Yellow, and Mottled Clean-legged Tumblers, good color and performers. All colors Wing Turbits, Magpies, and Parlor Tumblers. DAVID J. RUTH, Cor. So. Main Ave. & Oxford St., Scranton, Pa.

**FOR SALE.**—50 Blk., Red, and Mottled Booted and Smooth-Leg Tumblers, 75c. a pair, grand performers. 50 pairs Homers, 75c. a pair; and all kinds of Fancy Pigeons, cheap. Send stamp for further particulars. SOMERSET PIGEON LOFTS, Somerset, Mass.

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**HOMING PIGEONS.**—I have a number of fine cocks in Blue and Black Chequer and several pairs of mated birds (excellent breeders) that I will dispose of at reasonable prices. The above birds are pure-blooded Homers, and bred from reliable stock. Also a limited number of youngsters bred from the same strain. G. R. BAYLE, 1643 Race St., Philadelphia, Pa.

**HOMING PIGEONS,** strong flying stock. Large healthy pairs mated for breeding at \$1 per pair. Satisfaction guaranteed. LOUIS E. NEECE, Box 246, Williamsport, Pa.

**VERDEMONT HOMING LOFTS.**—A choice lot of speedy and reliable trained Homers for sale at \$1 per pair while they last. Bred from record birds from a number of the most noted strains. Pedigrees given and satisfaction guaranteed. C. E. BIRELY, Ladiesburg, Md.

**HOMING PIGEONS** for sale. Write for prices, or enclose stamp for circular. F. C. BEACH, Plain City, Ohio.

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**DR. H. D. KNIGHT,** Lancaster, Pa., breeder of (Wyckoff strain) S. C. W. Leghorns and choice B. P. Rocks. Eggs in season. Prices reasonable.

**90 VARIETIES** choice stock for sale in poultry and eggs for hatching. All pigeons and German hares. Colored description 60-page book of above, with valuable information 10 cents. Handsome prize list free. J. A. BERGEY, Telford, Pa.

**CHICKS TEN DOLLARS PER HUNDRED.** Extra choice yearlings, Leghorns, Wyandottes and Rocks, one to two dollars each. Prizes won at Newburgh last winter. Exhibition stock low. Write for your profit. HARRY MYER, Saugerties, N. Y.

**CUT PRICES ON ALL VARIETIES** Poultry and Eggs remaining of '99. All varieties fancy pigeons and German Hares. Natural-Colored, 60-page book, 5c. Price list free. J. A. BERGEY, Telford, Pa.

**WHITE PLYMOUTH ROCKS,** Light Brahmas, S. S. Hamburgs, and W. C. B. Polish, one and two-year-old fine breeding hens for sale very cheap to make room for young stock. F. L. LANDON, P. O. Box 135, Elmira, N. Y.

**WAR ON FIRST-PRIZE EGGS.** BUFF POULTRY FARM, Norristown, Pa. Buff Cochins, Mrs. Kimmel and Oaklin's stock only. Eggs for setting of 13 \$2.50. Buff P. Rocks, Buff Wyandottes, Buff Leghorns, Buff Minorcas \$1.00 per 13. A few Buff Cochins cockerels from first-prize hen at Washington, D. C., from \$5 to \$8 each. Express or P. O. Orders to E. S. GIRARD, Box 162 Norristown, Pa.

**COUNTY LINE POULTRY FARM.** Prize-winning Barred and White Rocks, Light Brahmas, Pekin and Rouen Ducks, and Toulouse Geese. My winnings this season at Washington, 2d on White Rock hen; two entries at Fredonia, N. Y., White Rocks, 1st cock, 1st and 2d hens, 4th pullet, 1st, and special pen as best exhibit of White Rocks; Barred Rocks, 2d cockerel, 4th pullet, and 2d pen; Toulouse Geese, 1st and 2d old pairs, 1st and 2d young pairs, 1st pen. Zimmer, judge. Send for free circular and mention The Feather. A. G. BARLOW, Box 51, Millers, N. Y.

**GREYHOUND DOGS,** black Russian poodle dogs, white toy poodle dogs. All kinds of Fancy Pigeons, Black Red Games, Silver Hamburgs, for sale or exchange. WILLIAM H. CAPEL, Frostburg, Md.

**BARGAIN.**—10 hens and cock for \$10; Buff and White Rocks, Buff and White Wyandottes, Buff and Light Brahmas, Buff Leghorns. White Fans, mated, \$1 per pair. E. A. STANDISH, Andover, Conn.

**MURRAY HILL POULTRY YARDS.** CHAS. B. WIGGINS, Greenport, Suff. Co., N. Y., breed G. M. Lefei's, E. B. Thompson's, W. B. Davis' Barred Rocks. Hawkins' and Prue's White Wyandottes. Northup's Minorcas. Eggs, \$1.50 per 13.

**A BARGAIN IN WHITE P. ROCKS**—10 hens and one cock for \$15; hens only, \$1 each; cock, \$5. I have five hundred head of young White Rocks, White Leghorns, and White Wyandottes for sale after September 1st. If you want fine, vigorous, farm-raised stock, write to me soon. C. M. BARTLETT, Agnewville, Prince William Co., Va.

**BLACK WALNUT FARM,** Churchland, Va., has for sale 100 early-hatched Pekin Ducks, Pollard, Rankin, and Newman strains, 25 S. C. White and 25 S. C. Brown Leghorn pullets. Write for prices at once, as this ad will not appear again.

**EXHIBITION BIRDS** and breeding stock for sale from 75 varieties standard-bred fowls, bantams, and Fancy Pigeons. Prices way down. 1,000 birds to select from. Enclose stamp when writing. TURNER'S PLEASANT VIEW POULTRY FARM, G. ARCHIE TURNER, Prop., Horseheads, N. Y.

**KLONDIKES!** New breed. Chickens can't fly. Beautiful and valuable plumage. Grand early-hatched stock for sale. Low introduction prices. Cut and description free. WILLIAM R. BLACK, Bolivar, Ohio.

#### FOR SALE OR EXCHANGE

**5 PENS PEKIN DUCKS,** \$1.25 each. Hallock's strain laying. One 300 egg Prairie State Incubator, \$50. Write for particulars. J. KEMP, TUNIS, McDaniel, Md.

**FOR SALE.**—Fine River Front Poultry Farm near Atlantic City. Stocked. New buildings. Big bargain. Must be sold at once. Very low figure. Write for particulars. THEODORE HEWKE, May's Landing, N. J.

#### SUPPLIES

**POULTRY SUPPLIES** of every description from a leg band to a bone cutter. Prices lower than ever. Illustrated catalogue free. I. F. SCHOTT, Box 175, New Pittsburg, Wayne Co., Ohio.

**LIQUID LICE KILLER.** Banishes lice and all vermin from Poultry and Stock, cheap harmless, and easily applied. Formula how to make and use it 10c. postpaid. GALLATIN SONS, York, Pa.

**ALUMINUM POULTRY BANDS** marked with number, year, name, and address. Practically seamless when applied. Seamless and open pigeon bands. Circular free. Sample for stamp. CHARLES COLLINS, West Lebanon, N. H.

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**BUFF COCHINS EXCLUSIVELY** for 21 years. GEO. BALL, 24 Milton Ave., Rahway, N. J. Eggs, \$2 per 13.

#### TOO LATE FOR CLASSIFICATION

**MEADOW VIEW HOMING LOFT.** A choice lot of reliable Homers for sale at reasonable prices. Bred from a number of the most noted strains. Pedigrees given. Write for particulars. J. A. HAHN, JR., Prop., Ladiesburg, Md.



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**TAKEN FROM LIFE.** "John Bull" and "Queen Vic," winners at Crystal Palace, London, 1897. Recently imported by us. Winners at the leading shows in the U. S. and abroad. Send for large catalogue. LEE F. MILLER, Elizabethton, Tenn.



## HOMING PIGEONS

G. R. BAYLE,  
1643 Race St.,  
Phila., Pa.

Reliable Birds at  
Reasonable Prices.

#### B. B. RED GAMES.

The grandest lot of chicks we ever raised. If you want birds with tremendous reach, fine snake heads, long thin necks, low close tails, combined with brightness of color, and hardness of feather, we can supply you. Also grand massive BUFF COCHINS, brothers and sisters to our winners at Johnstown, Brockton, Keene, Fitchburg, Boston, and Brattleboro. Cornish Indian Games, Pit Games, and Game and Ornamental Bantams. PEIRCE BROS., Lock Box P, Winchester, N. H.

## Brown Leghorns.



Having purchased the complete stock of Brown Leghorns of C. E. Howell, of Elmira, N. Y., I can offer some exceptionally good yearling stock at low prices for fall shows. Among the 400 young chicks are many that will be fully developed for September shows—males with correct saddles, females with that soft, brown, even color so desired.

JUDD H. JOHNSON,  
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Contains six beautiful pictures in natural colors and tinted half-tones. These are works of art and are unexcelled for naturalness and artistic effects. They are praised highly by all who have seen them. These pictures are printed on the best enameled paper, and are suitable for framing. They should be in the homes of all lovers of poultry. This set of pictures is as follows:

1. Barred Plymouth Rock Male.
2. Light Brahmas.
3. Black Langshans.
4. White Wyandottes.
5. Buff Leghorns.
6. Black Minorca Male.

We will send the complete set of six pictures as above, mailed flat to any address in the United States on receipt of fifty cents.

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To everyone who sends us 50 cents to pay for one year's subscription to THE FEATHER, we will send absolutely free the complete set of six pictures as listed above. This is a grand chance to get free the best and most artistic collection of pictures yet published. Send us 50 cents and we will send THE FEATHER to your address for one year, and also the above set of pictures. If you are a subscriber you can have your subscription extended for one year, and we will send the pictures to your address on receipt of 50 cents. Make all remittances payable to

GEORGE E. HOWARD & CO.,  
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# 8 TO 2

## S. C. WHITE LEGHORNS

Not quite "16 to 1," but sufficient to sustain our long-standing claim that our

## BEST EGG-PRODUCING VARIETY KNOWN. LARGE WHITE EGGS.

THE BEST GENERAL-PURPOSE FOWL.  
BROWN-EGG STRAIN.

## WHITE WYANDOTTES

— STILL LEAD ALL OTHER STRAINS! —

At New York State Fair, September, 1898, EIGHT of the ten FIRST PRIZES offered on our varieties were awarded to **KNAPP BROS., FABIUS, N. Y.**, 16 years before the public and at 37 of the leading shows, with HIGHEST HONORS every time. We now have nearly 1,000 CHOICE BREEDERS and EARLY-HATCHED CHICKS. If you want fall or winter SHOW BIRDS and SURE TESTED BREEDING STOCK, at reasonable prices, LET US HEAR FROM YOU SOON.

Stamp for catalogue giving highest prize record ever won by any breeder of any variety.

**KNAPP BROS., Box 600, Fabius, N. Y.**

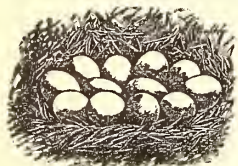
Will sell one-half of my breeding stock of 1898.

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### Cream of WHITE WYANDOTTES

Deal with me, the originator and breeder of the finest dark-egg strain in America. And the only strain that pleases both the fancier and the practical poultryman. In the great egg display at the Boston show, Jan. '98, my strain was King, winning first and second for best dozen brown, first for heaviest dozen (any color), first for best dozen Wyandottes, and Farm-Poultry's special \$10 in gold for the best and largest twenty-four or more Wyandotte eggs. The next week at the State show, St. Johnsbury, Vt., with eighteen birds, twelve entries, I won in strong competition twenty-three regular and special prizes, I won the best collection of W. Wyandottes, three specials for best breeding-pens, and special for best cock, cockerel, hen, and pullet. Stock and eggs for sale.

**W. E. MACK, Woodstock, Vt.**



including the silver cup for the best collection of W. Wyandottes, three specials for best breeding-pens, and special for best cock, cockerel, hen, and pullet. Stock and eggs for sale.

### Barred Plymouth Rocks AND White Wyandottes.

300 Youngsters bred from my winners ready for sale after September 1st. Write for particulars to

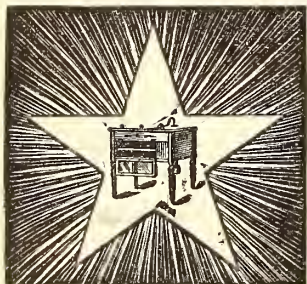
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The Ideal food for both old and young chickens.

**\$1.50 per 100 lbs.**

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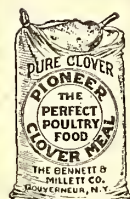
Never fails or disappoints. No guessing in its operation. Simple, accurate, and no moisture to be supplied. Catalogue free.

**STAR INCUBATOR & BROODER CO.,  
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Prices reasonable. Estimates cheerfully furnished.  
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### WINTER EGGS

ARE MOST DESIRABLE

because it is then that eggs command the most money. The man who has a band of winter layers considers himself fortunate. He is fortunate. It pays.

### Pioneer Clover Meal

makes winter layers out of all hens. It is the best, most natural egg-making food known. It is made from best clover hay, cured by our own special process, which preserves all the natural aroma and the bright green color. It is ground into fine meal—fine as the finest middlings—by specially prepared machinery. It doubles the egg product and is cheap.

Prices: 50 lbs \$1; 100 lbs \$2; 5 lbs 25c. Sample of meal and circulars free.

**The BENNETT & MILLETT Co., Box 4 B, Gouverneur, N. Y.**

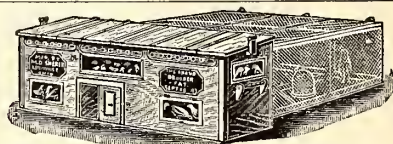


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Is the Originator and Breeder  
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Montauk Strain of

### Barred Plymouth Rocks.



Raise your Chicks in **BROODERS,**  
Our Compartment  
and your success is assured. Send 2-c. stamp for  
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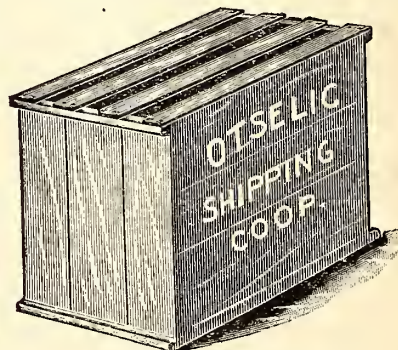
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Our buffs are noted for their great size and heavy feathering. At Hagerstown, '96, '97, and '98 we won more first and second prizes than any two competitors. At Hagerstown, '98, we won 1st and 4th on cockerels, 1st and 4th on pullets, 1st, 2d, and 3d on hens, and 2d on pen. Eggs from these grand birds \$3 per 13; \$5 per 26.

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FANCY POULTRY AND PET STOCK.



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Crated and shipped flat, as transportation comes much higher when nailed up.

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| WIDE.        | LONG.  | HIGH.  | EACH. | 1 DOZ. |
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| No. 2—12 "   | 18 "   | 12 "   | 20c   | 2.00   |
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|-----------------|--------------------|-----------------|
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| 3 ".....        | 65c per 100        | 6 per 1000      |
| 4 ".....        | 75c per 100        | 7 per 1000      |
| 5 ".....        | 85c per 100        | 8 per 1000      |
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| 2 ft. long..... | 60c per 100        | \$5.50 per 1000 |
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Always win nearly all the prizes where shown. If you do not believe it send for his catalogue, and it will give you the score and who scored his birds and what they scored. He is not afraid to give the scores, well may he be proud of them. Breeding stock for sale after May 15, if yards are taken as mated, one-half price. 220 breeders for sale. 800 early chicks for fall fairs and will win.

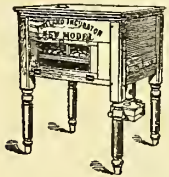
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My Minor Gas in the hands of my customers have never lost a special for large size, and have won more prizes in strong competition at New York, Boston, Washington, and other leading shows, than any other four strains combined, which proves the quality of stock I sell. I have **SHOW BIRDS AND BREEDERS TO SELL** at prices according to quality. Positively, I do not compete against my customers. Large catalogue tells the rest. Mention The Feather when you write.

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Hatching and Rearing, Simplicity, Durability and Construction.

Send stamp for catalogue. Circular free.

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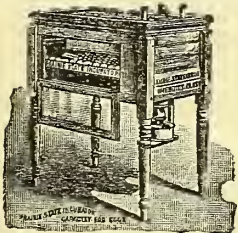
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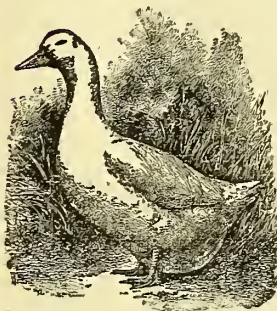
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The Prairie State Incubators and Brooders,  
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To all prospective buyers of EGGS FOR HATCHING. Read it. Then come and see us and our Stock, together with America's Greatest Poultry Farm. Visitors welcome.



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Wishing your mammoth farm a continuance of the popularity which you are now enjoying, I remain,

Overlook Poultry Farm.

Yours very truly,

C. S. TIEDEMANN.

Munsey, N. Y., Feb. 3d, 1899.

WHITE WYANDOTTES,  
BARRED PLYMOUTH ROCKS,

WHITE PLYMOUTH ROCKS,  
S. C. WHITE LEGHORNS,  
MAMMOTH PEKIN DUCKS.

Eggs that will hatch. We guarantee it.

Circular free. Large catalogue 20 cents in stamps or silver.

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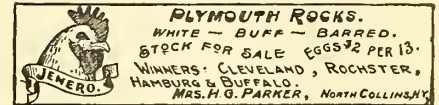
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A few of this year's banded Homing Pigeons for sale cheap. Wegge, Hussen, and Whiteley stock.



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WHITE - BUFF - BARRED.

STOCK FOR SALE EGGS \$2 PER 13.

WINNERS: CLEVELAND, ROCHESTER,

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That have fine size, shape, and color, in fact they can not be excelled. Every female in my breeding-pens is in fine condition and each pen is headed by a vigorous male. This with ample range insures fertility.

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DUSTON — WON 1ST COCK.

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STOCK AND EGGS FOR SALE. (SEE OTHER AD.)

THAT ARE RIGHT. ARE BRED BY DUSTON

THE SHOW. THE EGG BASKET. THE MARKET. ALL PROVE IT.

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THE BEST THING ON EARTH!

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Is the Greatest of all Egg Producers.

It takes the place of insect life for hens and chicks. It contains the nutritious elements found in meat. It fills the egg basket and makes chicks grow. It prevents constipation, scouring, and leg weakness in chicks.

B. B. B. Is guaranteed cheaper than meat, better than scraps, and safer than medicine. It will make hens lay more eggs and keep them in better health than any other food or condiment. Sample Free.

50 lbs. \$1.25. 100 lbs. \$2.25.

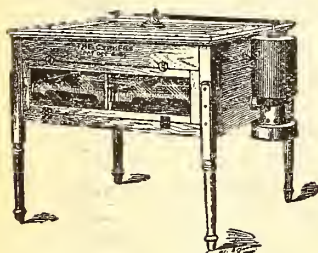
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I have bred winners for the Great Madison Square Garden and other of the largest shows where competition is keenest, and have a choice lot of breeders and young stock to sell. **Nine Years a Breeder of S. C. Black Minorcas.** All stock as I say or no sale. A Fine Circular.

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## Barred Plymouth Rocks..

Having won at the Great National show, Washington, D. C., two successive years against America's best, and having furnished winners to some of the best breeders, I respectfully solicit your patronage. Fine references. Birds ready for breeding and all shows, American and Foreign, at reasonable prices. Ask for catalogue of full particulars about eggs and stock, and many handsome photographic pictures of the birds as they appear at our farm. No fancy drawings allowed.

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## VASS' BUFF ORPINGTONS ARE IN THE LEAD.

Madison Square Garden, (N. Y.) Jan. 31 to Feb. 4, '99, 1st pen, 3d and 4th pullets. Boston, Jan. 17-20, 1st cockerel, 1st pullet. Washington, N. J., Jan. 17-19, 1st and 2d pullets, 2d pen. Mt. Gretna, Pa., Aug. 15-19, '98, 1st cock, 1st hen, 1st cockerel, 1st pullet. Trenton, Sept. 26-30, 1st pair fowls, 2d pair chicks. Nazareth, 1st pair fowls, 2d pair chicks; Buff Rocks, 1st and 2d chicks; W. Wyandottes, 1st pair chicks. Never have I seen a finer lot of Buff Orpingtons than I have now imported. Buff Orpington eggs, \$3 per 13; \$6 per 30. W. Wyandotte and Buff Rock eggs, \$1.50 per 13; \$3 per 30. Stock for sale. Satisfaction guaranteed. Circular free. **C. E. VASS, Washington, N. J.**

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Lister Kay's strain—no comment necessary.  
Motto: Highest Score, Prolific Layers.

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If you want of the best order from

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Cockerels and pullets that will win for you. Grand in size and undercolor. Write for circular. Will try and please you. Photographs furnished of birds to those who mean business.

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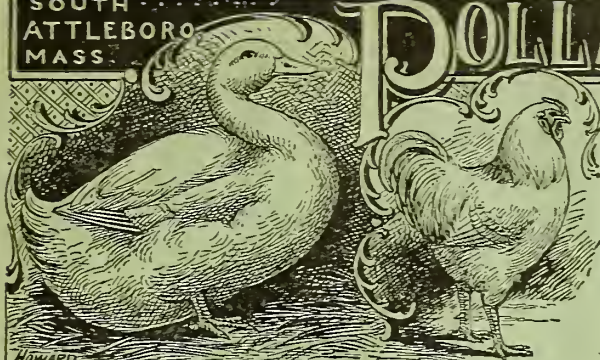
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Pekin Ducks, White Wyandottes, and White Rocks,

Are money makers. Our Pekins the past winter won on 6 entries at Madison Square Garden, 1, 2, and 3 on both duck and drake. At Hagerstown, Md., a clean sweep of all Pekin prizes. At R. I. Poultry Show 15 regular and 8 special prizes on 16 entries, losing 4th on old drake. At R. I. State Fair clean sweep.

Eggs, \$2 per 12; \$5 per 50; \$8 per 100.

**Pollard's Poultry Farm, South Attleboro, Mass.**

Only Duck Farm in New England advertising where premiums are won.



## Barred Plymouth Rocks.

Shipping young chicks to a point that can be reached within 36 to 48 hours is no experiment. I will ship 13 strong healthy chicks that are from my best pens for \$5. I can furnish a large number to be shipped after Monday, May 29th, as from 2 to 3 hundred will hatch at that time. I will also punch toes when desired and give a key to the punch mark that you can tell from what pen they are hatched.

...Incubator Eggs, \$3 per 100.

"LADY MARTHA WASHINGTON."  
1st at Hagerstown, '96.  
1st at Washington, '97.

**VALLIE HAWKINS, M. D.,**  
Fawn Grove, Pa.

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Simply put the cure in drinking water and the fowl will take its own medicine. FOR CANKER, especially in pigeons, this remedy excels all others. One 50c package makes 25 gallons of medicine. DIRECTIONS with every package. If this fails to cure we refund the money. Postpaid, small size, 50c; large size, \$1. Petaluma Incubator Co., Petaluma, Cal., Pacific Coast Agents.

AGENTS WANTED.  
Please mention this paper.

**CURE  
GUARANTEED.**

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Do not send stamps.



## CLOVER MEAL—\$5.00 PRIZE BROODERS.

Clover Meal will insure the egg yield in winter, it will insure more and stronger fertilized eggs, it will keep the hens in good health and vigor, it is equally as good for newly-hatched chicks as it is for matured hens. It will assist in putting those choice birds in the pink of condition for exhibition, and it is especially good for molting hens. We have the advantage over our competitors and can save our customers at least \$3 a ton freight and from two to four days in getting this Clover Meal. Our mill is at Jordan, N. Y., 17 miles west of Syracuse, on the New York Central and the West Shore Railroad and the Erie Canal. Price of Clover Meal, \$2 per 100, put up in 50-pound sacks. Send for Sample and Free Catalogue. We also manufacture the Famous \$5 PRIZE BROODER. It stands without an equal as a complete brooder-house summer or winter.



\$5 Prize Brooder.

**Jordan Milling Co.,      Jordan, N. Y.**

1892      **Rossmore Poultry Yards**      1899

HOME OF THE DARK BRAHMAS.

"The Queens of All Layers"

Importers and Breeders of the Celebrated Strain of

Improved "Full Feathered" Dark Brahmas Exclusively.

Imported by us from the Best Yards of them to be found in England and Scotland, regardless of cost, and the only ones of this strain to be found in America to-day. Winners in all the shows including New York, Boston, Northampton, Stoneham, Malden, and Lynn. We have never failed to win all first premiums in every show in the past seven years we have bred this strain. We have the Black and White in Males, and the "Steel Gray" shade, that is Steel Gray, in Females. We can continue to sell the Same Quality of birds at as low price as any other man. In fact we defy competition. And we have the birds to prove it.

We will spare a Few Settings of Eggs from Our Selected Breeders at Only \$5 per Setting.

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Of manufactured foods testifies to the universal appreciation of their excellence. It is no exaggeration to say that the most successful breeders, dealers, and amateurs owe something of their success to these products.

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Manufacturers of all kinds of  
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**OUR EGGS ARE NOT THE DOLLAR KIND**

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| Indian Games, per set, \$8.00       | 100 lbs. \$1.25                |
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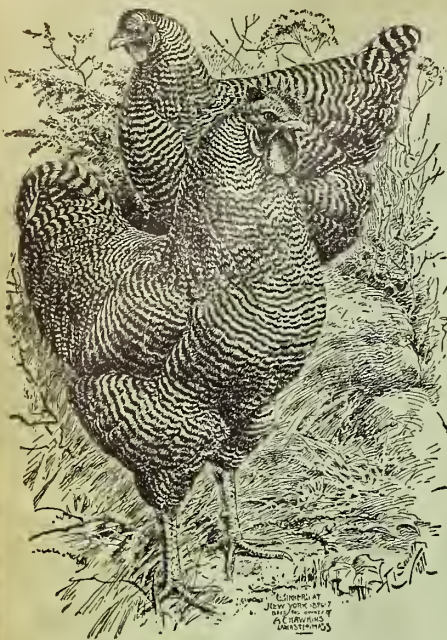
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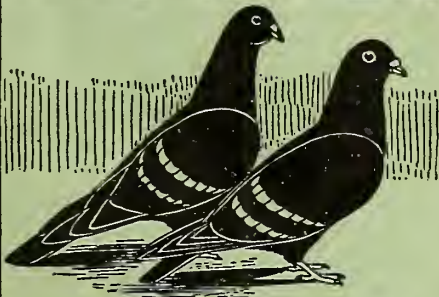


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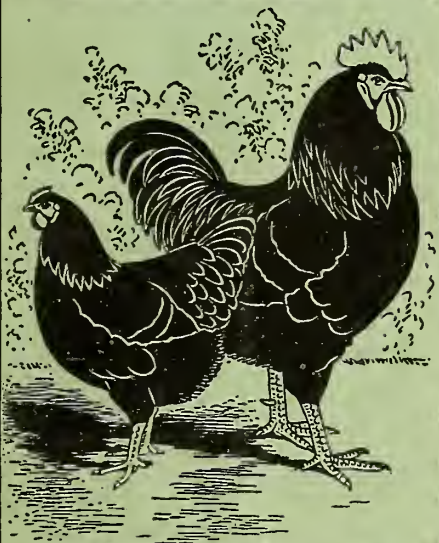


"Pocket-Money Poultry," by Myra V. Norys, in Press.

# The Feather



PIGEONS



POULTRY

WASHINGTON, D. C.

Vol. IV. SEPTEMBER, 1899. No. 12.

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"The Diseases of Poultry," See Page 422.



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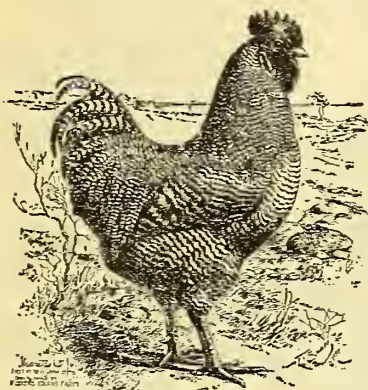
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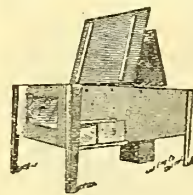
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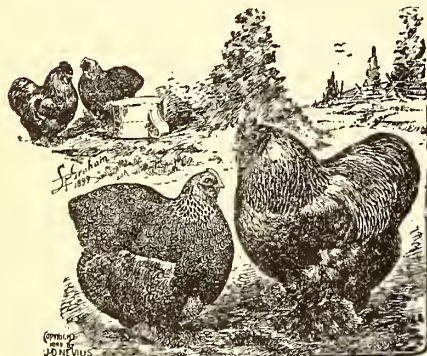
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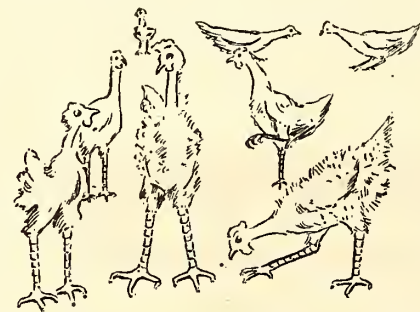
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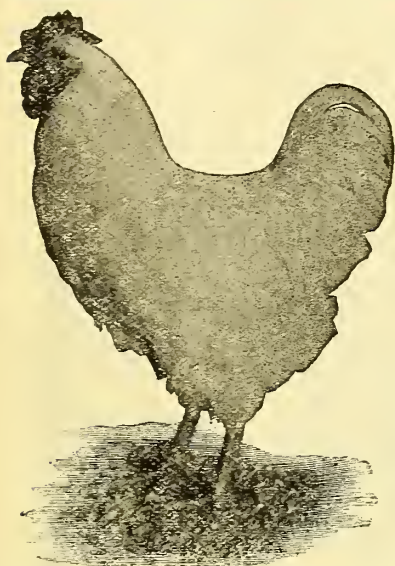


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### BARRED PLYMOUTH ROCKS, ...WHITE WYANDOTTES...

Fine lot of young stock now ready for delivery.  
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Which I shall dispose of for

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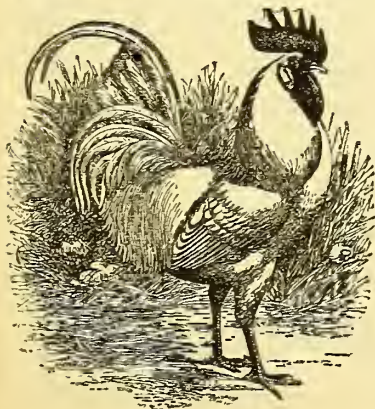
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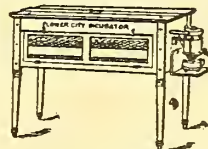
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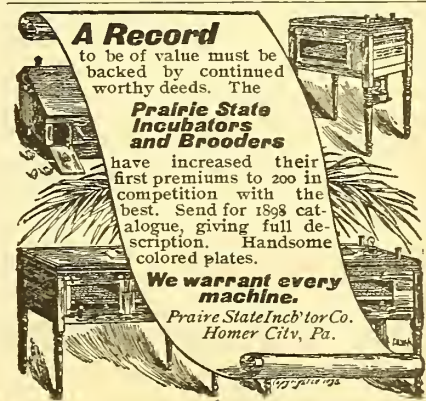
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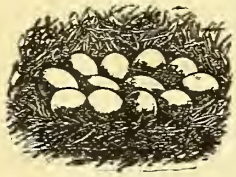
Will sell one-half of my breeding stock of 1898.

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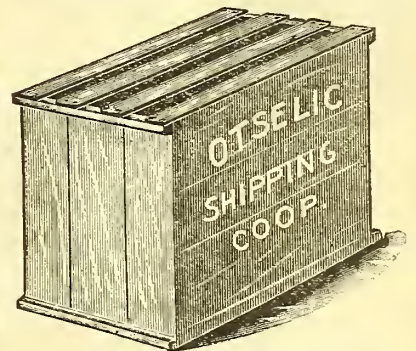
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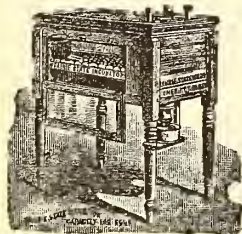
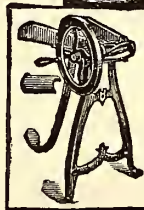
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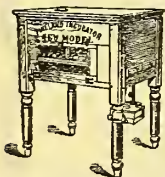
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Is the Greatest of all Egg Producers,

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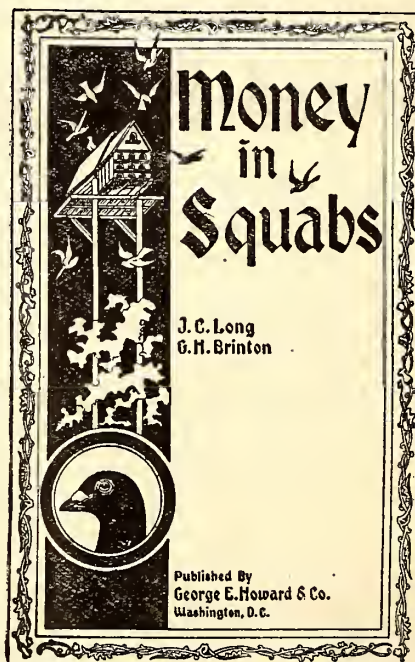
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SUPPLEMENT TO THE FEATHER,  
SEPTEMBER, 1899.

## SILVER SPANGLED HAMBURGS.

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A National Journal Devoted to Poultry, Pigeons, Birds, Etc.

VOL. IV. No. 12.

WASHINGTON, D. C., SEPTEMBER, 1899.

FIVE CENTS.

## THE HAMBURG FOWL.

**Their Early History—A Good Fowl to Breed—The Six Standard Varieties of the Hamburg Family—Description of the Penciled and Spangled Varieties—Their Qualities for Practical Purposes.**

**They Are Excellent Layers and Good Foragers.**

BY ELLSWORTH.

**T**HE Hamburg! Where are we to find a more aristocratic, a more thoroughbred fowl than the Hamburg? Its history is grand, and the more we look at it the more wonderful it is.

There are many popular thoroughbred fowls whose history can be traced no further back than two-score years, while that of the Hamburg goes back centuries; yes, as far back as the fifteen hundreds, where we find them mentioned and fully described by the old naturalist Aldrovandus. This ancient writer called it the Turkish fowl. He spoke of their white bodies, black markings, greenish-black tails, and blue-tinged legs; these characteristics being true of the Silver Penciled Hamburgs, and proving beyond doubt that he had before him in description this breed of fowls. Could we find a better or more satisfactory endorsement of them as a meritorious fowl, than the long period of uninterrupted breeding they have enjoyed? A good thing

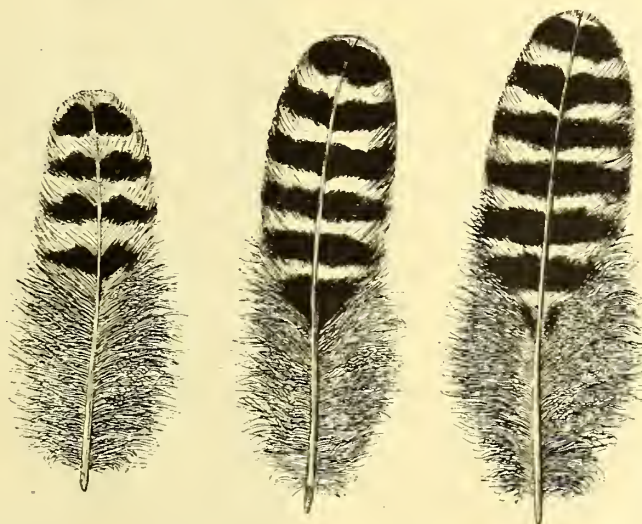
is, to be desired at all times, and this appellation befits them admirably. In the early days of their history they had all kinds of names, being commonly called the "Dutch Everyday Layers," the "Bolton Grays," the "Penciled Dutch," the "Creoles," etc., but latterly they are designated as the "Hamburgs." To us

they are known by the latter name, and it matters little how much their previous history has been muddled by strange-sounding and inappropriate names, they are handed down to the present generation as good fowls for practical and fancy purposes.

The Hamburgs are not as generally bred in this country as they should be, they are worthy of more notice. The small size of the Hamburg has much to do with this neglect, but their other good qualities should balance the scales in their favor. In general appearance they are attractive, if not beautiful, and their small, compact forms make graceful pictures at all times. Indeed it would be difficult to find a more entrancing picture in feathers than a flock of pure-bred Hamburgs, whether Spangled or Penciled. It is not our desire to dwell at too great length on the beauty of these fowls, but we feel we would do them an injustice were we to pass them slightly by. In beauty of feather they are hard to surpass, and this beauty is peculiarly their own. Each type has its own character, and that character is maintained to a high

degree in this interesting family of fowls. As to which is the prettiest must be decided by individual fancy. All are pretty, but preferences are given according to tastes for beauty.

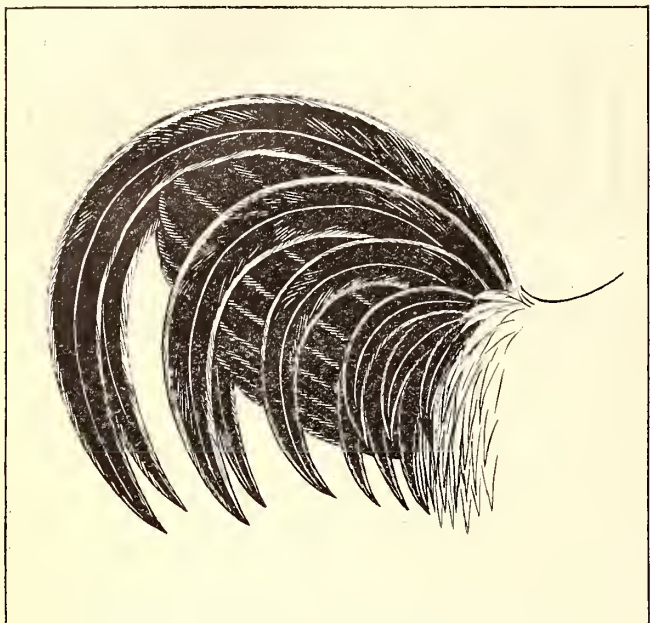
There are six varieties of Hamburgs as follows: Golden Spangled, Silver Spangled, Golden Penciled, Silver Penciled, White, and Black. In character, shape, and general appearance they are alike, differing only in plumage color. The typical Hamburg is small and dainty in appearance, with sprightly, active nature, and of a nervous, restless disposition. They possess these characteristics to



BREAST. SHOULDER. SADDLE.  
FEATHERS OF SILVER PENCILED HAMBURG PULLET.

a greater degree than do the Leghorns. In detail the Hamburg breed is small, and is ornamented with a medium-sized rose comb, that sits squarely on the head and terminates with a spike at the rear end. Their wattles are broad, well rounded, and of sufficient length to fit the head without appearing too long or





TAIL OF A SILVER PENCILED HAMBURG MALE.

pendulous. The neck of a Hamburg is prettily arched; its back is of medium length, and breast is well-rounded and prominently developed. They have large wings, nicely expanded tails, and medium-sized thighs and shanks. Their whole structure is dainty in conception and harmonious in effect.

We will now look at the plumage-coloring of the several varieties. The White Hamburg is, of course, pure white, not a spot nor blemish of any color is to be found anywhere in the plumage. While the Black Hamburg is possessed of a rich, greenish-black plumage throughout, and feathers of other colors will disqualify the bird. The shanks and toes of all varieties of the Hamburg are of a leaden-blue color.

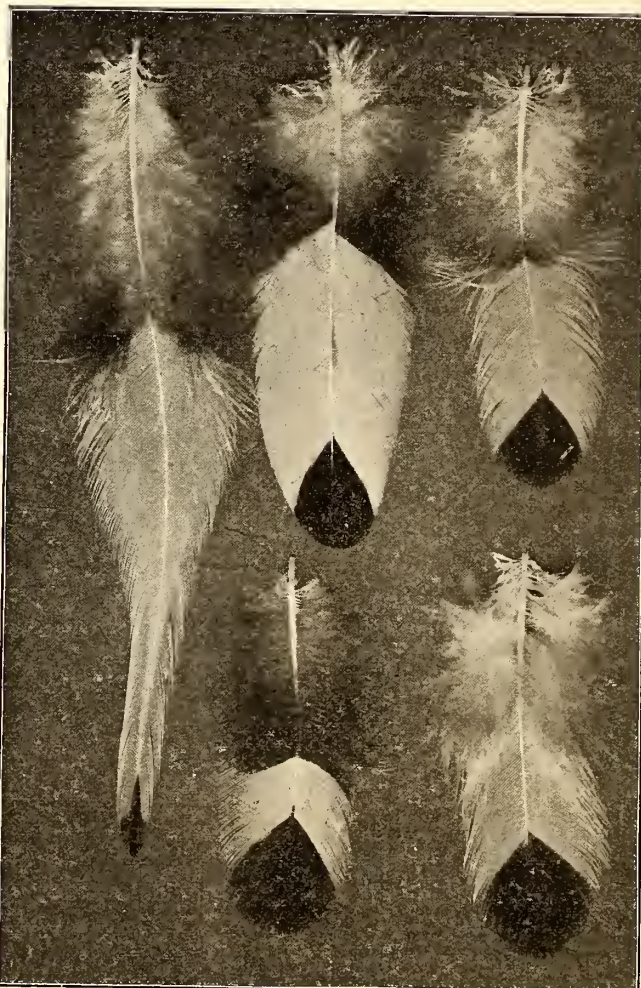
The Spangled Hamburgs, both Golden and Silver, are marked identically alike in feathers, the difference being in color effects, the Goldens having black spangles, with the balance of feather a reddish-bay color. The spangles in the Silvers are black, as in the Goldens, and the rest of the feather is pure white, instead of the reddish-bay in the Goldens. These colors make a very pretty contrast in well-marked specimens. The illustration in half-tone of feathers gives a most excellent idea as to the markings of the Spangled varieties, while the other plate shows equally as good effects in the Penciled birds.

The neck-plumage of the Golden Spangled Hamburg male, is a rich, deep bay, each feather having a greenish-black stripe down the center, which terminates with a point at the end of the feather. The hackle-feathers of the Silver Spangled Hamburgs are pure white, ending with a small black spangle. The back-plumage of the Goldens is reddish-bay spangled with black, and of the Silvers, pure white, spangled with black. The saddle-feathers of the Goldens are reddish-bay, striped with black, while those of the Silvers are white, with a small spangle at the end of each feather. The breast-feathers of the Goldens are reddish-bay, ending with a large, glossy black spangle; the Silvers have white feathers which end in large black spangles. The body and fluff of both Goldens and Silvers are similar to the breast-plumage.

The wings of the Golden male have reddish-bay bows, spangled with greenish-black; primaries, upper web black, lower web bay; secondaries are reddish-

bay, each feather ending with a glossy greenish-black crescent; coverts are reddish-bay, each feather ending in a black spangle, which form two distinct parallel black bars across the wing. The description for Silvers is the same as the above, excepting that the color is white instead of reddish-bay. The tail, sickles, and coverts of the Goldens are glossy greenish-black. The tails of the Silvers are white on the outside, the feathers ending with a large black spangle; the sickle and coverts being white and end in black spangles. The under-color of both being black or dark slate. The plumage-color of the females corresponds with that of the males in both Goldens and Silvers. The beaks of both varieties are of a dark horn-color; the eye of the Goldens being dark red, while that of the Silvers is called for in dark bay.

The neck, back, and breast of the Golden Penciled Hamburg male, according to the Standard, is bright reddish-bay; the body-color is the same, the parts below the wings being penciled across with black bars; the fluff being black; wing-bows, reddish-bay; primaries, upper web black and lower web bay; the upper web of the secondaries is reddish-bay, penciled with black bars, while the lower web is reddish-bay, and each feather ends with a small black spot; the coverts are reddish-bay, the upper web being slightly penciled with black bars; the tail-feathers are black, the sickles being glossy-black, edged with a narrow



FEATHERS OF SILVER SPANGLED HAMBURG.

stripe of reddish-bay. Thighs a reddish-bay.

The Silver Penciled Hamburg male has in the main



a silvery-white plumage. The neck, back, breast, and body being a clear white plumage, the fluff alone being black, powdered with gray; tail, black; sickles, black, edged with white, the coverts being the same as the sickles. Thighs a silvery-white.

The females, both Golden and Silvers, have the same colored plumage as described above for the males. But the feathers in the females are distinctly penciled with parallel black bars across each feather, while in the males the feathers are free from the penciling excepting where mentioned. The under-color of the Golden is black or dark slate, while that of the Silvers is bluish-gray. The eyes of these two varieties are bright red, and beaks are blue or horn-color.

The description of the plumage-color of these interesting birds is such as to warrant an insight into their beauty, but such descriptions lack the fascinating influences of color and harmonious effects seen in the living thing. As truly as these fowls are beautiful they are useful. They are not what may be termed an all-purpose fowl, but they possess qualities that go a long way in making them a profitable fowl to keep. Hamburgs require treatment that is specially fitted for them. Being a small breed of fowls they require warm, comfortable houses, dry shelters, and careful protection from exposure during winter. A well-built house, free from cracks and crevices, board floors, and amply lighted, is all that may be desired for their welfare. Dampness is a great drawback to them, their natures can not stand it. Their principal quality is in egg-production. They are noted layers, and being non-sitters they make a fine showing in a year. Their average is uniformly large, and under proper treatment they are capable of excelling in this particular field. Their eggs are rather small, but this should be no serious objection to them so long as eggs are sold by the dozen instead of by weight. If we consider the cheapness with which Hamburgs may be kept, we will realize more fully the profits to be had from them. They are extremely small eaters, even more so than any other variety of fowls excepting the Bantams. On a farm, or suburban residence, where unlimited range is to be had, Hamburgs will gather seventy-five per cent of their food. It is imperative that these fowls have free range, as they are fretful and restless when in too close confinement. They may, however, be kept in good-sized runs where grass is in plenty, and sufficient shade provided. An orchard run is fine for them. For table purposes they are not rated very high, owing, of course, to their small size, yet they are prized very highly for eating by those who are well acquainted with them. Their flesh is tender, juicy, and fine grained; the bones being small, they have much more meat on them than is at first supposed. Two Hamburgs for dinner cost no more than do some other fowls, and the eating is much finer. The chicks mature early, are hardy, and develop into laying pullets in a short space of time. The Hamburg only needs the care and attention due them to make them a favorite. Try them and see how well they will meet your expectations. All varieties are pretty as well as useful.

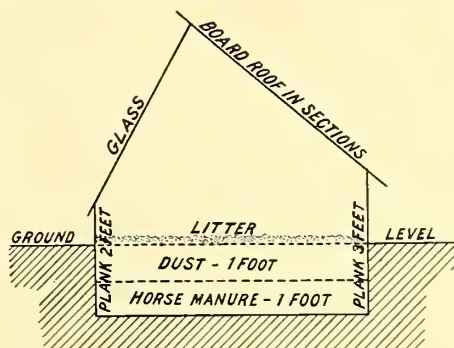
#### A GOOD PLAN.

We have always been confronted with a serious puzzle—what shall we do with the young chicks when compelled to remove them from the brooder to make room for the next hatch? We finally concluded that the treatment which had been found beneficial for

young plants would do equally well for young chicks.

When our young chickens were a few weeks old we transferred them from the brooder into the hotbed. This we found was a splendid place for the young chicks and we have enlarged upon our first idea, and have constructed a scratching and dusting-place and a grand winter resort for chicks of large growth. The accompanying illustration gives a good idea of its construction. We dug a trench five feet wide, two feet deep, and twenty-five feet long. We filled this trench one foot with horse manure and one foot with dry earth. A quantity of litter can be scattered on the ground. This trench runs east and west.

On the south side the wall is constructed of boards two feet high, one foot below and one above the level of the ground. On the north side the wall is three



PLAN OF SCRATCHING-SHED.

feet high, one foot below and two above the surface of the ground. The entire roof is constructed in sections and can be removed in a short time to clean house and to renew the horse manure, which is the source of the

heat. On the south side the roof is made of alternate window-sash with glass in and boards nailed in sections, and this part of the roof stands almost perpendicular. The roof on the north side is made of boards nailed in sections and stands comparatively flat. The comb of the roof is five feet high. Close up the ends with boards and make a door at each end large enough to admit a man.

In the directions for building a poultry-house we are always told to put a box filled with road-dust in the corner, and in all cases we have found the said road-dust would absorb enough moisture from the atmosphere to freeze into a solid mass during cold weather. The hen-palace here described answers the purpose of a gigantic dust-bath, fancy day-room and feeding-ground for the hen. The birds will find many bugs, worms, and flies that are hatched in the manure. The ground has never been frozen on the inside since its erection.

The size of this winter resort and the superstructure can be changed to suit the various ideas of your many readers, and in cold and stormy weather any one will be surprised to find how much time the fowls will spend on the inside, and how much this chicken-palace will add to the comfort and health of the flock, and how much the income will be increased. During the past winter we had a splendid opportunity to test the value of this scratching-shed for laying hens. From our hens placed in this shed we received four eggs to one from the same number and kind placed in the ordinary scratching-shed. We claim for this the cheapest and best method of construction to secure comfort for a flock of young or old chickens during the winter season, and of great assistance to the poultryman in securing a larger income and greater profits from his flock.—W. R. B.

"Pocket-Money Poultry," by Myra V. Norys. In press. Price, 50 cents.



## MOLTING.

*Editor The Feather:*

Please tell me something about molting fowls and how to care for them. I am a beginner in the business.—A. N. D.

Answer by Dr. D. E. Salmon.

The molting period with birds is a critical one, and fowls should receive special attention at that time. The French speak of this process as "*la crise de la mue*," the crisis of molting, because of its serious effects and the danger attending it. Molting, however, is not a disease, it is strictly a physiological process, and while it reduces the energy and vitality temporarily, as do some other physiological functions, it appears to be essential to the well-being of the species.

Most kinds of animals exhibit a similar phenomenon in the annual shedding of the hair. We do not speak of this as molting, but the French use the same word (*mue*) for the shedding of the horse's coat in spring, as they do for the shedding of feathers from the barnyard fowls. It is worthy of notice that the hair of mammals is shed early in spring, as the cold weather is giving way to the warmth of approaching summer, and the thick coat is no longer needed for protection from the winter temperatures. With fowls, however, the molting season is postponed until late in summer or early in autumn, when the breeding season is over and all the strength and vitality can be given to this important function.

Although the hair of our domestic quadrupeds does not grow as rapidly nor in most cases constitute so great a mass relative to the size of body, the shedding process is, nevertheless, accompanied by more or less disturbance of the general condition, loss of strength and liability to disease. With horses well fed and cared for, this disturbance may hardly be perceived, but with those under less favorable treatment it is noticed that they perspire more easily, their flesh is soft, and they do not show their usual vigor and spirit. They are more subject to disease and have less power to resist its effects.

With fowls the depressing effect of renewing the coat is seen in an extreme degree as compared with other domestic animals. The plumage becomes dull, roughened, and ragged; the birds stop laying, lose their vivacity, show weakness and indisposition to hunt for their food; the appetite is lessened, the comb no longer has its bright crimson color, and there is unusual thirst. The farther north the birds are situated, and the colder the weather at the time of molting the more serious appears to be this disturbance of the general condition. Young birds and especially those hatched late in the season suffer the most.

The first and most serious molting crisis occurs when the large feathers make their appearance in the tail and wings of young birds. The dispirited and drooping aspect of the chicks is plainly manifested at this time. The early-hatched birds have more strength and vigor and resist much better the debilitating effects of molting than those from the later litters; moreover the former molt earlier, when the weather is warmer and more favorable. The molting period is, consequently, most severe in its effects upon the late-hatched chickens, which are still small and delicate, and which molt after the weather has become cold, and when chilling rains are frequent.

Adult fowls in good condition and with fairly good care generally pass through the molting period with no more serious results than a temporary cessation of egg-production, dullness, and loss of appetite. If

delicate, weak, or if for any reason the molting has been delayed until cool weather, there may be loss of flesh, fever, or the development of some disease of the internal organs.

As the production of the new coat of feathers is evidently a great drain upon the strength, it should be compensated for, by giving stimulating and nutritious food and supplementing this in special cases by stimulating and tonic medicines. The feathers constitute about four per cent of the live weight with the larger breeds and from nine to ten per cent with the smaller breeds; and to replace these in the course of a comparatively few days requires the use of a considerable amount of nutritive material. The ration at this time should, therefore, be a generous one, containing meat scraps, animal meal, cut bone or some other form of animal food, and a liberal proportion of linseed meal. The birds should be kept indoors during rainy weather, and, in case of late molting, protected from the cold.

There may be added to the ration a small quantity of capsicum, or a combination may be made of capsicum, ginger, and sulphate of iron, a grain or two being given to each bird daily in the food. A tonic powder much used in France consists of:

|                    |           |        |
|--------------------|-----------|--------|
| Cinnamon,          | . . . . . | 3 oz.  |
| Ginger,            | . . . . . | 10 oz. |
| Gentian,           | . . . . . | 1 oz.  |
| Anis,              | . . . . . | 1 oz.  |
| Carbonate of Iron, | . . . . . | 5 oz.  |

These ingredients are to be finely pulverized and thoroughly mixed. This is given in the dose of one to five grains, according to the size of the bird. It is of particular service with young turkeys.

A powder recommended by Megnin to be used in cases of difficult molting is composed of the following ingredients:

|                   |           |         |
|-------------------|-----------|---------|
| Fennel,           | . . . . . | 1 oz.   |
| Anis,             | . . . . . | 1 oz.   |
| Coriander,        | . . . . . | 1 oz.   |
| Pale cinchona,    | . . . . . | 1 oz.   |
| Gentian,          | . . . . . | 2 oz.   |
| Ginger,           | . . . . . | 2 ½ oz. |
| Sulphate of iron, | . . . . . | ½ oz.   |

Each of these ingredients should be made into a fine powder before mixing, and the compound should be passed several times through a fine sieve to secure the uniform distribution of each ingredient. The dose is two to five grains twice a day.

The object of the poultryman should be to have his fowls reach the molting period in a strong and vigorous condition and to bring them through this period as rapidly as possible by giving appropriate food. Condition powders and medicines are of doubtful benefit if the molting is progressing in a natural manner. If, however, the period is unduly prolonged and the molting appears to be difficult, one of the above-mentioned powders will be useful. The powders are, also, indicated for late-molting birds, and for delicate varieties, particularly for young turkeys.

## DUST-BATH.

The fowls will enjoy a dust-bath in winter, and it is really a necessity. Take a box of convenient size, fill with road-dust, sulphur, and flour, and place it where the sun will shine upon it.



## INFLUENCE OF THE COCK ON EGG-PRODUCTION.

At the close of the winter tests the hens that had been used in the condition-powder and cut-bone experiments were matched in such a manner as to equalize previous feed conditions in four coops of sixteen fowls each. The fowls were all put upon the same feed, and egg records were kept for two weeks, to determine whether the fowls seemed evenly matched. At the end of the time a vigorous White Leghorn cock was placed in two of the coops. We had thus two experiments co-incidentally running. These will be designated respectively test No. 1 and test No. 2.

*Test No. 1. Influence of the Cock on Egg-production.*—In the preliminary trial the hens in pen 1 laid 129 eggs; those in pen 2, 107 eggs. In the first pen five hens were brooding; in the second, seven. The fowls in both pens were fed alike, each receiving, in addition to the feed recorded, lawn clippings three times per week. The experiment began May 13 and extended to September 2. In calculating the food cost per hen day the cock is included in the hen days, but in calculating the number of eggs per hen day the cock is not included. No ill health or accidents of any kind occurred. The cock in the trial was in pen 1.

*Foods Consumed (May 14 to September 2).*

| KINDS OF FOOD.   | Pen 1. | Pen 2. |
|------------------|--------|--------|
|                  | Lbs.   | Lbs.   |
| Wheat.....       | 194    | 194    |
| Oats.....        | 82     | 78     |
| Bran.....        | 32     | 32     |
| Middlings.....   | 32     | 32     |
| Gluten feed..... | 32     | 32     |
| Animal meal..... | 32     | 32     |

*Average Weight of Fowls (Pounds).*

| DATES.                 | Pen 1. | Pen 2. |
|------------------------|--------|--------|
| May 14, beginning..... | 5.12   | 5.09   |
| June 11.....           | 4.69   | 4.91   |
| July 16.....           | 4.91   | 4.94   |
| August 11.....         | 4.87   | 5.09   |
| September 1, end.....  | 4.82   | 4.95   |

*Influence of Cock on Egg-production.*

|                                               | Cock with Hens. | No Cock with Hens. |
|-----------------------------------------------|-----------------|--------------------|
| Hen days, including cock.....                 | 1,904           | —                  |
| Hen days, without cock.....                   | 1,792           | 1,792              |
| Gross cost of food.....                       | \$5 53          | \$5 49             |
| Cost per hen day.....                         | \$0 0029        | \$0 0031           |
| Total number of eggs.....                     | 631             | 630                |
| Cost per egg.....                             | \$0 0088        | \$0 0087           |
| Eggs per hen day.....                         | .35+            | .36—               |
| Total weight of eggs (pounds).....            | 77.3            | 76.79              |
| Average weight of eggs (ounces).....          | 1.96            | 1.95               |
| Dry matter consumed per hen day (pounds)..... | .19             | .20                |
| Dry matter consumed per egg (pounds).....     | .58—            | .57+               |
| Nutritive ratio.....                          | 1:4.7—          | 1:4.7              |
| Sitters.....                                  | 41              | 45                 |

*Test No. 2. Influence of the Cock on Egg-production.*—During the preliminary period the fowls in pen 5 laid 90 eggs, three offering to sit; those in pen 6 laid 107 eggs, five offering to sit. The cock was placed in pen 6. One hen in pen 6 was lame from July 6 to the end of the test; one in pen 5 was injured in the back on July 22, and died August 4. This test closed August 25.

*Foods Consumed (May 14 to August 25).*

| KINDS OF FOOD.   | Pen 6. | Pen 5. |
|------------------|--------|--------|
|                  | Lbs.   | Lbs.   |
| Wheat.....       | 179    | 161½   |
| Oats.....        | 80¾    | 81¾    |
| Bran.....        | 31½    | 30½    |
| Middlings.....   | 31½    | 30½    |
| Gluten feed..... | 31½    | 30½    |
| Animal meal..... | 31½    | 30½    |

*Average Weight of Hens (Pounds).*

| DATES.         | Pen 6. | Pen 5. |
|----------------|--------|--------|
| May 14.....    | 4.91   | 5.06   |
| June 11.....   | 4.79   | 4.94   |
| July 16.....   | 4.91   | 5.09   |
| August 11..... | 4.94   | 5.17   |
| August 23..... | 4.72   | 5.02   |

*Influence of the Cock on Egg-production.*

|                                               | Cock with Hens. | No Cock with Hens. |
|-----------------------------------------------|-----------------|--------------------|
| Hen days.....                                 | 1,664           | 1,643              |
| Hen days with cock.....                       | 1,768           | —                  |
| Gross cost of foods.....                      | \$5 24          | \$4 89             |
| Cost per hen day.....                         | \$0 0030        | \$0 0030           |
| Total number of eggs.....                     | 629             | 526                |
| Cost per egg.....                             | \$0 0083        | \$0 0093           |
| Eggs per hen day.....                         | .38+            | .33—               |
| Total weight of eggs (pounds).....            | 77.84           | 64.76              |
| Average weight of eggs (ounces).....          | 1.98            | 1.97               |
| Dry matter to produce 1 egg (pounds).....     | .55             | .63—               |
| Dry matter consumed per hen day (pounds)..... | .20             | .20                |
| Nutritive ratio.....                          | 1:4.8           | 1:4.7              |
| Sitters.....                                  | 35              | 33                 |

Study of these results shows that the cock was without apparent influence upon the egg product of these fowls. The differences are very small, too insignificant to have much weight, even if in both trials of the same nature. When we note, however, that in one trial the balance was very slightly in favor of the set of fowls with which the cock was kept, and that in the other trial it was with the fowls kept without the cock, we must conclude that the results prove neither benefit nor injury due to the presence of the male. In one respect only is there agreement in the results of the two trials; the average weight of the eggs from the hens with which a male was kept was slightly the greater in both trials. It seems not impossible that this effect may be due to the fact that the eggs had been fertilized. The difference is, however, exceedingly small, and would be wholly without significance to the producer of eggs for market or for table use.—*Report of the Massachusetts Agricultural College.*

## BROWN AND WHITE CHINESE GEESE.

The smallest of the breeds of geese are the Chinese, averaging in weight from six to seven pounds lighter than those previously named. Apparently their want of size has prevented them from becoming favorites with those who raise large numbers annually, but with those who keep a limited number they are found to be very practical. What they lack in size they gain in egg-production, being the most prolific of all breeds of geese, averaging from fifty to sixty eggs a year. In size, aptitude to fatten, and ease of management they appear in no respect inferior to other geese, while the quality of flesh is decidedly superior.



THE SCIENCE AND PRACTICE OF POULTRY  
FEEDING.—X.

Rations for Laying Hens.

BY DR. D. E. SALMON.

**L**AST month there was considerable space given to a discussion of what constitutes a balanced ration for laying hens. A ration which had sustained a pen of hens for a month when not laying, without gain or loss of body weight, was compared with another ration fed for a month during the laying season; and after making due allowance for the constituents of the eggs and the loss of body weight, it was found that a ration with a nutritive ratio of 1:5.5 would have supplied all the nutriment needed by these fowls. The question was propounded as to whether this was or was not a properly balanced ration.

In one sense, the theoretical composition arrived at by the calculations of last month would constitute a balanced ration, that is, it balanced all the needs of the birds' bodies and furnished material for the construction of the eggs. It may be admitted, however, that this ration is not necessarily the most favorable that could be devised for egg production. There is great flexibility in the use of the nutritive constituents in the body, and one class of these can be substituted to a considerable extent for others, so that the needs of the body can fortunately be met with rations having widely different nutritive ratios. To ascertain what is the best ratio for egg-production and of what ingredients the ration should be composed, can only be determined by a combination of scientific investigation and practical feeding trials.

The experiment stations are furnishing the data necessary for such studies and we must turn to their reports for our facts. The New York station at Geneva made some very instructive investigations on the subject of ratios which were published in 1891. Four pens of fowls were taken, two being of the smaller breeds and two of the larger breeds. The two pens containing hens of the smaller breeds were contrasted with each other, as were the two containing the hens of the larger breeds. That is, the fowls in the contrasted pens were similar in size, breed, and age. The nutritive ratio of the more nitrogenous rations was 1:4.39 and 1:4.23; and of the more carbonaceous rations it was 1:5.60 and 1:5.63 as summarized in the bulletin. These calculations were made from the total constituents with no attempt to arrive at the digestible portion.

The nitrogenous ration in this case is far from being as narrow as Mr. Silberstein suggests is required for the best results, and, yet, it was found that the hens fed upon the more carbonaceous ration produced 28 per cent more eggs, and that these eggs were 24 per cent greater in weight than those produced by the hens upon the narrower ration. With fowls of the smaller breeds, the number of eggs was over 57 per cent higher and the weight about 49 per cent greater from those fed the more carbonaceous ration.

This experiment covered an entire year, and for the preceding year the fowls had been upon rations of the same character for each pen respectively as were fed during the year under consideration. The year from which the results are given included the whole of the second laying season, the fowls being all mature and averaging about seventeen months old when this ex-

periment began. During the first laying season these same fowls averaged for the smaller breeds 36 per cent more eggs and about 42 per cent greater weight of eggs with the cornmeal, or more carbonaceous ration.

The fowls having the more nitrogenous ration were always in better health, and their plumage, except during a short molting period, was always full and glossy. Those having the more carbonaceous ration were oftener sick and their plumage was always ragged and dull, and for some time during the first year the vices of feather pulling and egg eating were common among them. When feeding linseed or cotton-seed meal for more than a short time, the hens would not eat a much more nitrogenous ration than that fed to Pens 5 and 6, except by partly starving or by also feeding meat. On the other hand, the hens could not be kept alive and confined together when fed a much larger proportion of cornmeal than was given to Pens 7 and 8. At times, it was necessary to add meat scraps to the ration so that the hens might not become too diseased to endure the feeding for the long period.

Experiments which have led to such conclusions are worthy of a very careful study, and the writer is of the opinion that it is necessary to consider the digestible constituents of the rations in order to fully appreciate the results. Corn and cornmeal are in most years the most abundant and cheapest articles of food for poultry. If these articles can be fed to the extent indicated by the feeding trials under consideration, and increase the number and weight of the eggs produced, that is a most valuable fact for the poultryman. It matters not if more skill is required in feeding such a ration—that is to be expected where an animal is under higher pressure, and is more than counter-balanced by the increased product.

The rations fed to the two pens of the smaller breeds were as follows:

*More Nitrogenous Ration.*  
*Pen No. 5, Daily Average per Fowl for Year.*

| INGREDIENTS.       |       | DIGESTIBLE CONSTITUENTS. |         |                |       |
|--------------------|-------|--------------------------|---------|----------------|-------|
|                    |       | Dry Matter               | Protein | Carbo-hydrates | Fat   |
|                    | oz.   | oz.                      | oz.     | oz.            | oz.   |
| Mixture No. 1..... | .441  | .3810                    | .0903   | .1364          | .0185 |
| Mixture No. 2..... | .164  | .1469                    | .0312   | .0575          | .0058 |
| Corn.....          | .977  | .8295                    | .0772   | .6175          | .0396 |
| Oats.....          | 1.018 | .8989                    | .1095   | .4568          | .0403 |
| Meat Scraps.....   | .065  | .0615                    | .0353   | ....           | .0207 |
| Corn Ensilage..... | .157  | .0471                    | .0027   | .0253          | .0016 |
| Calf Meat.....     | .022  | .0045                    | .0036   | ....           | .0003 |
| Red Clover.....    | .169  | .0630                    | .0054   | .0294          | .0019 |
| Total.....         | 3.013 | 2.4324                   | .3552   | 1.3229         | .1287 |

The "mixtures" in the above ration consisted of linseed meal, bran, and ground oats.

*More Carbonaceous Ration.*  
*Pen No. 7, Daily Average per Fowl for Year.*

| INGREDIENTS.       |       | DIGESTIBLE CONSTITUENTS. |         |                |       |
|--------------------|-------|--------------------------|---------|----------------|-------|
|                    |       | Dry Matter               | Protein | Carbo-hydrates | Fat   |
|                    | oz.   | oz.                      | oz.     | oz.            | oz.   |
| Cornmeal.....      | 1.103 | .9221                    | .0761   | .6817          | .0360 |
| Corn.....          | .698  | .5926                    | .0551   | .4411          | .0283 |
| Oats.....          | .980  | .8653                    | .1054   | .4397          | .0388 |
| Meat Scraps.....   | .066  | .0624                    | .0359   | ....           | .0211 |
| Corn Ensilage..... | .176  | .0528                    | .0030   | .0284          | .0018 |
| Calf Meat.....     | .022  | .0045                    | .0036   | ....           | .0003 |
| Red Clover.....    | .166  | .0619                    | .0053   | .0289          | .0019 |
| Total.....         | 3.211 | 2.5616                   | .2844   | 1.6198         | .1282 |

The weight and product of the fowls in these pens is shown by the following table:



| Pen No. | AVERAGE LIVE WEIGHT.  |                 |                 | Average gain during year. | Average No. of eggs per fowl. | Average weight of eggs per fowl. |
|---------|-----------------------|-----------------|-----------------|---------------------------|-------------------------------|----------------------------------|
|         | At beginning of year. | At end of year. | For whole year. |                           |                               |                                  |
| 5       | lbs. 3.02             | lbs. 3.55       | lbs. 3.4        | lbs. 0.53                 | 43.69                         | ozs. 91.48                       |
| 7       | lbs. 3.64             | lbs. 3.80       | lbs. 3.7        | lbs. 0.16                 | 68.66                         | ozs. 136.29                      |

The relation of the above rations to the weight of the fowls, and the nutritive ratio as computed from the digestible constituents is shown by the next table:

| Pen No. | Total food per day per fowl. | Water-free food per day per fowl. | Total food per day per 1 lb. live weight. | Total water-free food per day per 1 lb. live weight. | Nutritive Ratio. |
|---------|------------------------------|-----------------------------------|-------------------------------------------|------------------------------------------------------|------------------|
| 5       | ozs. 3.013                   | ozs. 2.4324                       | ozs. .886                                 | ozs. .715                                            | 1:4.56           |
| 7       | ozs. 3.211                   | ozs. 2.5616                       | ozs. .868                                 | ozs. .680                                            | 1:6.73           |

It certainly is very remarkable that the ration fed to pen No. 7, containing so much corn and cornmeal and having so wide a ratio, should have yielded so much better results than the more nitrogenous ration fed to pen No. 5. In order to follow the matter as far as possible and learn all that we can from the experiment, tables have been prepared to show the nutritive constituents in the product, that is, in the eggs and in the increase in body weight. The data as to the composition of eggs was given last month, and it is assumed that the increase in body weight consisted of 10 per cent protein and 60 per cent fat. Using these figures, the following tables have been prepared:

*Pen No. 5.*

*Average Product, per Fowl, per Day.*

|                              | ozs.       | Protein.   | Fat.       |
|------------------------------|------------|------------|------------|
| Eggs.....                    | ozs. .25.6 | ozs. .0329 | ozs. .0234 |
| Increase in body weight..... | ozs. .0232 | ozs. .0023 | ozs. .0139 |
| Total.....                   |            | ozs. .0352 | ozs. .0373 |

*Pen No. 7.*

*Average Product, per Fowl, per Day.*

|                              | ozs.       | Protein.   | Fat.       |
|------------------------------|------------|------------|------------|
| Eggs.....                    | ozs. .3734 | ozs. .0553 | ozs. .0392 |
| Increase in body weight..... | ozs. .0070 | ozs. .0007 | ozs. .0042 |
| Total.....                   |            | ozs. .0560 | ozs. .0434 |

Having secured this data, we can readily find what part of the rations was used to produce eggs and flesh and what part was used for the maintenance of the bodies of the birds. This is shown below:

*Pen No. 5.*

*Average, per Fowl, per Day.*

|                                | Protein.   | Carbohydrates. | Fat.       |
|--------------------------------|------------|----------------|------------|
| In ration.....                 | ozs. .3552 | ozs. 1.3229    | ozs. .1287 |
| In product.....                | ozs. .0352 | ozs. .0023     | ozs. .0139 |
| Remainder for maintenance..... | ozs. .3200 | ozs. 1.3229    | ozs. .0914 |

*Pen No. 7.*

*Average, per Fowl, per Day.*

|                                | Protein.   | Carbohydrates. | Fat.       |
|--------------------------------|------------|----------------|------------|
| In ration.....                 | ozs. .2844 | ozs. 1.6198    | ozs. .1282 |
| In product.....                | ozs. .0560 | ozs. .0007     | ozs. .0042 |
| Remainder for maintenance..... | ozs. .2284 | ozs. 1.6198    | ozs. .0843 |

The interesting question still left for solution is, How do the maintenance rations of these two pens of fowls compare with each other? In the ration of pen No. 5, there is more protein and less carbohydrates than in pen No. 7, and, besides, the weight of the fowls in pen No. 7 was greater than that of the fowls in pen No. 5. We must find some way of reaching equivalent conditions before we can judge of the relative efficiency of these rations. This may be accomplished by finding the fuel value of the nutritive constituents, since these constituents have been burned in the body to keep up its heat and energy.

The unit commonly used for measuring the fuel value of food is the *calorie*, which represents the amount of heat required to raise the temperature of a kilogram of water 1 degree C. (or 1 pound of water 4 degrees F.). The combustion of an ounce of protein or carbohydrates yields 116.25 calories, while the combustion of an ounce of fat yields 263.75 calories. The value of these maintenance rations in calories is, therefore, calculated as follows:

*Pen No. 5.*

|                    | ozs.   | × | 116.25 | = | Calories |
|--------------------|--------|---|--------|---|----------|
| Protein.....       | .3200  | × | 116.25 | = | 37.20    |
| Carbohydrates..... | 1.3229 | × | 116.25 | = | 153.79   |
| Fat.....           | .0914  | × | 263.75 | = | 24.11    |
| Total.....         |        |   |        |   | 215.10   |

*Pen No. 7.*

|                    | ozs.   | × | 116.25 | = | Calories |
|--------------------|--------|---|--------|---|----------|
| Protein.....       | .2284  | × | 116.25 | = | 26.55    |
| Carbohydrates..... | 1.6198 | × | 116.25 | = | 188.30   |
| Fat.....           | .0848  | × | 263.75 | = | 22.37    |
| Total.....         |        |   |        |   | 237.22   |

We have now only to determine the number of calories per pound live weight in order to compare these rations. This is done as follows:

|            | Calories. | ÷ | Live wt. lbs. | = | Calories per lb. live wt. |
|------------|-----------|---|---------------|---|---------------------------|
| Pen No. 5, | 215.10    | ÷ | 3.4           | = | 63.26                     |
| Pen No. 7, | 237.22    | ÷ | 3.7           | = | 64.11                     |

That is, the maintenance ration of pen No. 5 is equal in fuel value to 63.26 calories per pound live weight, and that of pen No. 7 is equal to 64.11 calories per pound live weight. These figures are wonderfully close together—much nearer than we could reasonably expect them to be, especially as we do not know the exact coefficients of digestibility with fowls, and as the maintenance ration per pound live weight varies somewhat with the weight of the bird. It need not be supposed that all experiments will correspond so satisfactorily as this one, nor, indeed, is this necessary in order to reach conclusions as to the approximate effect of rations.

The lesson which these figures particularly impress upon one is that nutritive constituents of the ration, representing a definite fuel value per pound live weight, are required for the maintenance of the body. What the fowls can be induced to eat beyond this amount will go to produce feathers, flesh or eggs. The amount of food eaten, other things being equal, will depend upon its concentration, upon its appetizing qualities, upon its digestibility, upon its effect in maintaining the health, and upon its stimulating action with reference to the different functions of the body. These various points must be considered by the successful feeder.



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**Egg Markets.** According to the *New York Commercial* the city of New York is the greatest egg market in the world. That paper bases this assertion upon the report that the receipts of eggs upon the New York

market last year were over 90,000,000 dozen, which, figured at the average retail price of 20 cents, were worth \$18,000,000. The New York Biscuit Company buys 4,000 dozen eggs a week. The calico printing trade buys from 5,000,000 to 8,000,000 eggs a year in the New York market.

Taking the whole country, it is alleged that the calico printing interest uses annually over 40,000,000 dozen eggs, while the coffee roasters, photographic trade, the cracker and biscuit combines, and the chemical trade use twice as many. The leather and leather product trades are extensive users of eggs for tanning purposes, several patent food concerns also use vast numbers; while wine and liquor jobbers find the egg indispensable in fining their product.

Altogether, the use of eggs in the arts and for export gives the grocers considerable competition and secures much better prices for the producers than could otherwise be obtained. This is a comfort to poultrymen and an encouragement to the poultry industry. The egg market of New York is not so large but that it will continue to grow. The use of eggs in the arts will increase rather than fall off. The production of eggs is still in its infancy and has a boundless future before it. The poultry industry is in a healthy condition, and will expand to meet any emergency. Intelligence and zeal will be rewarded in this industry to a degree that will be hard to reach in other occupations.

\* \* \*  
The August number of the *Georgia Poultry Herald*, publishes the following:

## No Grit for Ducks.

Editor *Georgia Poultry Herald*:

I note you comment on "many men of many minds" and say *The Feather* says grit in some form is necessary for ducks.

Now, I do not care to engage "Mr. Feather" in a controversy, but will say that I have yet to find the first particle of grit in a duck's gizzard, and those who dress ducks for market verify this statement.

Of course, ducks do eat sand and it no doubt assists in digestion, but not through the mechanism of grinding.

I do not think ducks require grit and until some one can prove to me that they do, I shall still hold my opinion.

Truly,

W. H. CAMERON.

This interesting letter came as a surprise to us, and while it is not necessary to answer the same, we feel compelled at least to notice it. That Mr. CAMERON is wrong, is self-evident when he says he does not think ducks require grit. Grit is as essential to ducks as it is to other fowls. The gizzard can not perform its true functions without grit to help in grinding and crushing the food. It does not need a controversy to establish this fact. From our experience with ducks, and personal acquaintance with many of the largest breeders of these fowls, we are positive that they can not be bred to their proper development without some form of grit. To better understand this we will quote from JAMES RANKIN, the well-known breeder, whom we should think ought to know whether or not ducks require grit. In an article on "Pekin Ducks for Profit," which he contributed to the *Reliable Poultry Journal*, he says very plainly: "I wish to emphasize several points again. Do not forget the *grit*; it is absolutely essential." Nothing could be clearer than that. MR. RANKIN grows ducks by thousands each year. Another authority who devotes several acres to duck culture is GEORGE H. POLLARD, and he says: "In every quart

of the mash we put a handful of *fine gravel*. \* \* \* *Gravel or grit is before them (the ducks) at all times.*" We will mention another veteran in duck culture, A. J. HALLOCK, who says that, "Grit in some form is *essential* to ducks and should be kept before them at all times." There is hardly the need to go farther in this matter; if we did it would be necessary to quote *every* successful breeder of the web-footed family. MR. CAMERON is wrong, of this we are quite sure, and the sooner he alters his *theory* the better will be his *practice*.

\* \* \*  
One can hardly appreciate the value and extent of the poultry industry of the world. We know that our home production of poultry and eggs exceeds three hundred million dollars annually, but have no way of definitely estimating the total worth of the world's production. It would be astonishing to note the sum total of eggs and poultry produced annually in the United States and Europe. France, Austria-Hungary, Russia, and Italy are the leading European poultry countries. Great Britain is also a large producer, but does not produce near enough eggs for home consumption. It is the largest egg-importing country in the world, more than \$20,000,000 being spent annually in imported eggs. This large amount is distributed among the nearby countries, and no small portion of the trade goes to Canada. The United States is compelled to import several million dollars worth of eggs each year, instead of producing eggs for export trade. Canada receives upward of \$3,000,000 a year of our egg trade. The possibilities of this country are many, if we but grasp the opportunities as presented. The United States should be exporting rather than importing.

\* \* \*  
In April we announced that we had in preparation a book entitled "Pocket-Money Poultry," by that well-known and popular authoress, Myra V. Norrys. It was expected that this book would be ready for distribution in August, but it has been delayed by the remarkable increase in the business of THE FEATHER. Twice within a year THE FEATHER has been moved to more commodious quarters, and new presses, type, and equipment added. Notwithstanding these increased facilities, we have not quite been able to keep up with our program. "Pocket-Money Poultry" will be ready, however, by October first and we predict for it a heavy sale, as it covers a field that has not, heretofore, been systematically treated.

This book was written primarily for women who wish to supply themselves with pocket-money by keeping a few fowls. It begins at the beginning of the subject, goes into the details, points out the essentials, and makes the course of the successful poultry raiser so plain that any intelligent person can follow it without difficulty. There is no reason why thousands of persons in the country and in the suburbs of our towns and cities, who now buy inferior eggs and poultry at high prices, should not produce their own, have it always in first-class condition, and sell enough to their neighbors or grocers to make a substantial profit on the operation. For all who have such a plan in mind, and who are deterred only because of



the fear that they have not mastered all the mysteries of the business, the book of Mrs. Norys will be a great boon.

While written particularly for women, this book will be of no less value for men. It is well known that many of our most successful poultry raisers are women. The members of the gentler sex take to the business naturally, and have a clearer appreciation of the little details which are so important in influencing the final result. This book, written by a woman who has proved her ability by making a brilliant success as a poultry raiser, enumerates all the points which together constitute the secret of success. It is, by far, the best book ever written for inexperienced persons who wish to begin the poultry business in a small way and to avoid the pitfalls into which so many have fallen.

The experienced poultryman will, also, read this book with both pleasure and profit. There are none so old and experienced but that they have still much to learn. Perfection in this as in other occupations is hard to attain, and those who are doing the best still find room for improvement. This book contains many ideas and suggestions which will be useful to those who have been long engaged in the industry. Indeed, the more the reader knows of the subject, the more appreciation will he or she have of the care and skill of the authoress in preparing this little handbook.

Orders for "Pocket-Money Poultry" will be received now, and filled in the order in which they appear upon our books. This work makes a valuable addition to THE FEATHER LIBRARY, and we earnestly recommend it to all engaged in poultry raising, or who are contemplating this fascinating and profitable occupation. The volumes which constitute THE FEATHER LIBRARY have been universally commended as models not only of practical and instructive reading matter, but of good paper, fine printing and moderate cost. "Pocket-Money Poultry" will be no exception in this respect. The publishers are gratified by the reception of the volumes which have so far appeared and expect each succeeding volume will add to the popularity of the enterprise.

#### More Compliments.

"The Diseases of Poultry," a new book of 250 pages, by Dr. D. E. Salmon, chief of the United States Bureau of Animal Industry, has recently been published by George E. Howard & Co., publishers of THE FEATHER, Washington, D. C. It is a most valuable and useful publication at the moderate price of 50 cents.—*Georgia Poultry Herald*.

We have received a copy of the new book by Dr. D. E. Salmon on "The Diseases of Poultry." This work is very complete, and gives directions for detection and treatment of the various diseases which affect poultry. These diseases are many, and it is important to know what to do for them when they appear. Any one who has even a few fowls can well afford to pay 50 cents for the book mentioned.—*Western Fruit Grower*.

We acknowledge receipt of a new book, "The Diseases of Poultry," by Dr. D. E. Salmon, D. V. M., chief of the United States Bureau of Animal Industry, and published by George E. Howard & Co. The book is attractively gotten up, profusely illustrated, and is a

complete treatise on the diseases encountered in the poultry-yard. It contains 250 pages and should be in the library of every poultryman.—*Inland Poultry Journal*.

We have received a copy of the new book, "The Diseases of Poultry," by Dr. D. E. Salmon, D. V. M., chief of the United States Bureau of Animal Industry. This gentleman, who has devoted his life to the study of the diseases of animals, has in the work before us given to the world a valuable addition to that division of poultry literature devoted to the treatment and cure of the diseases of our feathered friends. To any one interested in poultry it is a book of absorbing interest. It includes chapters on diseases of the organs of respiration, digestion, peritoneum, liver, urination, reproduction, brain, heart, and blood vessels, skin, feet, and legs. The chapter on parasites will be found very useful. The book is well printed on good paper, and is well sprinkled throughout with diagrams and good illustrations numbering seventy-two, which will be found very helpful in more completely explaining the meaning of the text. This especially applies to Chapter VI., on the structure and workings of the organs of urination and reproduction.—*Fowls*, (London, Eng.)

#### SPECIAL NOTICE.

In the October number will appear the first instalment of a most valuable article on "Up-to-date Fowl-Houses," written exclusively for THE FEATHER by C. H. Payne, C. E. These articles will only appear in our columns; they will be copyrighted and thoroughly illustrated. Don't miss them!

#### Chicken Chatter.

The premium list of the Hagerstown event has reached us. Great things are expected there next month.

T. F. McGrew was in charge of the Syracuse show this trip. Our next issue will tell some things about it.

"We are getting inquiries every day

saying, 'I saw your ad in THE FEATHER,'" write H. B. Gregory & Sons, Akron, O.

The Lynnhurst Yards, Glassboro, N. J., report an active demand for birds for early delivery in the fall. These yards did a heavy trade last season.

The best "ad" compositor on any poultry paper we see is on THE FEATHER, Washington, D. C. He is a neat printer and they have a fine pressman, too.—*New England Fancier*.

A. J. Blanchard, Meadville, Pa., writes: "THE FEATHER has proved to be an excellent advertiser, by the number of calls I have received from people who have seen my notice therein."

N. T. Custard, San Marcos, Texas, writes: "While it might be possible to keep house without THE FEATHER, I don't see how any lover of poultry can get along without it. It would be cheap at double its cost."

The Old Homestead Brooder, manufactured at Middleboro, Mass., has been improved. It now sits flat on the floor, with no legs nor bridges. They will soon issue a new catalogue under the name of the Old Homestead Brooder Co.

W. T. Heistand, Delaware, Ohio, had twenty-three hens in one pen, which laid in January 180 eggs, February 193, March 245, April 374, May 456, June 347, and July 285, a total of 2,080 eggs for the seven months. A pretty good record.

The editor was to have joined a fishing party—a blue-fishing party—at Fishers Island last month, but Crangle writes that the bluefish have failed to show up so far this season. When it comes to a fine point, it is evident that bluefish know a thing or two.

G. E. Vaughan, Lynchburg, Va., writes: "I wish to thank you and congratulate you upon giving to your subscribers the splendid picture of a Single Comb Brown Leghorn male, issued with your July number. The Brown Leghorn is my favorite of all chickens, and I hope that at some early date you will give us a picture of an "up-to-date trio."

## SPECIAL ANNOUNCEMENT!

MYRA V. NORRY'S GREAT BOOK

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ON SALE OCTOBER 1, 1899.

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# THE FEATHER'S REVIEW.

## Reviews in Brief.

Pure food always.  
 Eat your old hens.  
 Egg foods make eggs.  
 The hen is a good thing.  
 Free range means less feeding.  
 Exclusive grain diet never pays.  
 Open an account with your hens.  
 Profit by utilizing others' wastes.  
 Prevent rather than cure cholera.  
 Egg-producers increase the income.  
 Prompt action saves many a calamity.  
 The egg fowls have a type of their own.  
 Clover is a great helper in making eggs.  
 The hen pays well when given half a show.  
 New blood occasionally is spice for the whole flock.  
 Fresh eggs command a ready market on a cash basis.  
 Deterioration in the stock means beginning all over again.  
 Fowls must have comfortable quarters to be at home for laying.  
 Vegetables should play an important part in the feeding of fowls.  
 The important parts of the poultry business should be done by one's self.  
 Mismanagement is a bad practice to follow; it is responsible for many dire results.

## Cure for Chicken Cholera.

A writer in the *Rural Californian* says: "I have found Epsom salts and an extract of catechu in the drinking water a great help in preventing and curing chicken cholera. As a rule, chickens so affected drink a good deal and will get a sufficient quantity. One tablespoonful of salt and a tablespoonful of catechu to two gallons of water is about the right proportion. Last fall I lost many of my fowls before I tried this, but a short course of the treatment checked the death rate and seemed to cure the sick fowls. A few weeks ago I again saw signs of cholera, but I dosed them for ten days and the trouble has disappeared and not a chicken died. Prompt action is quite necessary. If cholera has ever been on the premises, keep a close watch of the chicken-roosts and if fowls appear to be affected, treat at once."

## Clover as a Food.

Clover is one of the principal foods for poultry, and no breeder will go astray by using it in the daily ration. Repeated experiments have proven it invaluable for the production of eggs. In *Farm, Field and Fireside* we find this about clover as a food for poultry:

"To begin with, we find a large amount of lime in clover hay. This constitutes a large percentage of the eggshell. This portion of the egg must be carefully guarded to attain the desired profit from the egg product, for soft-shelled eggs or eggs with no shell at all, are useless as a market commodity, and often cause an evil habit among fowls—namely, egg eating.

"Comparing the amount of lime in different products of the soil, you will find by the following table a larger percentage of lime to the one thousand pounds of clover than in grain products:

|                            |               |
|----------------------------|---------------|
| White clover hay . . . . . | 33.48 pounds. |
| Red clover hay . . . . .   | 27.80 pounds. |
| Beans . . . . .            | 1.65 pounds.  |
| Rye . . . . .              | 1.22 pounds.  |
| Barley . . . . .           | 1.06 pounds.  |
| Corn . . . . .             | 0.96 pounds.  |
| Wheat . . . . .            | 0.98 pounds.  |
| Peas . . . . .             | 0.58 pounds.  |

"By this table it is seen that grains contain only about one pound of lime to the thousand pounds. Hence, it is quite noticeable that fowls fed entirely on a grain diet would produce a large per cent of soft-shelled eggs. Oyster-shells will not provide them enough for shell material, for they are indissoluble, indigestible, and can not be assimilated.

"There is sufficient lime in one hundred pounds of clover hay to produce shell material for 200 eggs of average size, with a substantial shell, capable of sustaining the egg with ordinary usage to be placed on the market.

"As a flesh producer clover contains eleven per cent and corn ten per cent. Therefore it contains a larger amount of flesh-forming substances than corn. It also contains more phosphates, sulphur, magnesia, and soda, and in dry matter there is an abundance.

"As the principal ingredients of an egg are nitrogen, carbon, and water and mineral matters, foods that contain these products should be transferred into the egg in the easiest manner. Nitrogen is an element of the air, composing about four-fifths of it. In vegetable matter it exists in the form of albumen, gelatine, protein, etc. These are the elements from which flesh, or the white and yolk of an egg are composed, and are called albuminoids.

"All these substances are found in clover hay. This, when scalded and fed with ground grains, greatly assists in forming the egg and producing heat, is easily digested, and sufficient quantities will be consumed by the hen to produce eggs and flesh in proportion to the hen's ability.

"There are few commodities in the vegetable line that will take the place of clover hay, and none will excel it. It is not only rich in nitrogen, lime, sulphur, magnesia, and phosphates, but it contains soda, carbon, and potash.

"Clover being bulky is easily digested, and being bulky, there is less danger of overfeeding and producing too great an amount of fat on the hen—for fat hens will not lay."

## Mismanagement.

It is a matter of mismanagement that some farmers and poultrymen will "keep over," season after season, a lot of worse than useless fowls that are inferior in every respect; fowls that have outgrown all possible usefulness. This practice may be considered, on general

principles, to exist commonly "among the people." It is "unfortunate, inasmuch as it is responsible for a great deal of the dissatisfaction among beginners and those inexperienced. It is more than probable, too, that a large share of the chicks come from the eggs of these greatly inferior fowls, as their brooding tendencies are generally quite well developed. It is quite obvious, therefore, that the sooner this class of poultry is obliterated from the face of the earth the better. There is no better time to commence cutting them out than right now. Either eat them yourself or send them to market. In this latter event, it may be as well to fatten them a little—if they are not already too fat. Shut them up in small coops and place in a darkened room. Feed them cornmeal, mash, and cooked kitchen scraps in the morning, all they will eat up clean; and corn, wheat, or buckwheat, at noon and night. Avoid giving them onions in any great quantity, or anything of a sour or stale nature, as it is liable to taint the flesh. Keep their coops in good sanitary condition and in a very short time they should be in a good marketable condition. Put them through this process and then sell them for just what they will bring. Endeavor to improve your flock in every possible way. Introduce new and better blood occasionally; make up a breeding-pen from the best birds, and breed these exclusively. To allow your flock in any way to deteriorate is to invite inevitable loss and failure.—*Indiana Farmer.*

## Utilizing Food.

A writer in the *Kansas Farmer* says: "No unvarying rule can be laid down as to the number of times food should be supplied nor as to the amount. Of course, until the young poultry have made a sufficient growth to be allowed to run about, they must be fed early and often, but after they can be given a free range, less feeding is necessary, and the amount and the number of times must be largely determined by the opportunity afforded for their receiving food. When there is plenty of scattered grain, bugs, and insects they can pick up, not very much food is required over and above what they can get in that way. They will keep healthier and thrive better if they are able to pick up a good part of their food in this way. When there is little they can find, more must be supplied.

"One of the best ways of utilizing the kitchen's waste is to feed it to poultry, and one of the best ways of feeding is to cook thoroughly. This is especially the case with potato- and apple-, and, in fact, all kinds of vegetable-parings. The small vegetables thrown out because they are too small to use to an advantage, the waste pieces of meat, scraps of bread, and all this class of material can be mixed together and cooked until soft, and it makes one of the very best foods for the poultry. A little care should be taken to have it clean. There is no possible advantage in feeding filth of any kind to fowls, but with a little care there is no need of having this kind of food filthy or unwholesome. By keeping a pot or vessel on the stove and throwing these scraps into it as fast as made, they can be cooked soft with very little trouble, and, with a little care, a considerable amount of food that would otherwise be wasted, may be secured."



**Producing Eggs Exclusively.**

A writer in *Colman's Rural World* gives the following suggestions for producing eggs exclusively, at all seasons of the year, particularly from September to March. He says:

"First. Have the mature fowls chiefly of the non-sitting varieties, and particularly of such classes as lay the largest eggs, quantity and quality relatively considered. For this purpose, such breeds as the Minorca, Houdan, and Leghorn are the best.

"Second. Have the mature fowls of different ages coming on and developing maturity at all seasons of the year. Do not recognize any particular season of the year as the time to breed, but keep up the work with system and plan throughout the whole year.

"Third. Keep the fowls comfortable during inclement weather, and in the winter it would be well to have an old rickety shed, well covered over, and protected to a fair extent from rain or snow, in which about six or seven tons of horse manure are kept continuously, well sprinkled with grain, as a scratch-pile."

He says it will require about 750 hens, kept exclusively for eggs, to support a man and his family, if he depends solely on them for a living. Upon that basis he should average about 180 dozen eggs a week for the year, at some seasons more, of course; at other seasons less. Assuming that a man is so situated that he can raise most of his grain and family vegetables, this will give him enough cash capital from time to time to live comfortably without slaving himself to death by overwork. In addition to these facts, fresh eggs command a ready market and a cash market.

**The Hen Pays Best.**

"Nothing will pay better for the money invested than chickens," says the *Texas Stock and Farm Journal*, "if they are properly handled, but to be profitable as much care must be exercised as with your cows, sheep, or horses. Because the hens will give returns under adverse circumstances is the reason they are neglected so much, but the better they are treated the better the returns you will receive from them." The *Journal's* advice is good and conceded to be correct, but the difficult part of the thing is to make average farmers believe it. By keeping constantly at them they may eventually be taught what a good thing the hen really is, and how much better off they would have been had they stopped to listen to this advice years ago.

**Sassafras Oil for Lice.**

"Several times we have been told," says *Poultry, Fruit and Garden*, "that sassafras oil would rid a poultry-house of all varieties of lice and with very little labor in its application. Procure one ounce of the oil for the season's work, at night mix one-fourth of the amount with three gallons of water, and, by using an old whisk-broom, sprinkle it thoroughly over every part of the house and coops which are infested. Repeat the work at intervals of three or four days several times in order to catch the young as quickly as they hatch out, and, it is said, no further trouble will follow during that season. It has also been said that a few drops of the oil mixed in the soft food will drive all lice from the chickens so fed."

## Did It Win the Country... Barred Plymouth Rocks



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If size and number of shows are counted? From North, East, South, and West both in Eggs Hatched and Stock Sold it won the Much-sought Firsts and at the Largest shows. At Over 30 Exhibitions our Breeding and our Strain took First Place, and Stock from eggs we sold scored to 95 Points under the First Ribbon. \$325 was the price three birds we bred were held at or Money Refused.

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We have beaten every one each time we have exhibited at New York Shows. Our 50 Winners there Were all of our Breeding, except one which was of our strain.

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Carefully Mated Yards a Specialty. Breeders by the 50 or 100 at Reduced Rates. Large Illustrated Circular Free.

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## HARTNEST STRAIN OF LIGHT BRAHMAS.

ORDERS NOW BOOKED.

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Will make hens lay and keep them in healthy condition all the year round like . . . .

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For the month of **November only** we will sell a 1-lb. can 15c., or 7 cans \$1. Now is your chance to lay in a supply of this Food, and you will have plenty of Eggs when cold weather comes. Our immense illustrated Catalogue free. Address,

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### Experiments With Poultry.

Some interesting experiments are reported by the Utah Experiment Station which may be summarized as follows: The food cost per fowl was about sixty-three cents. As pullets, they laid an average of 175 eggs each, and as year-olds they averaged 132. The cost of eggs was about forty per cent in favor of the first year. During the first year, as pullets, there was a profit of 188 per cent on cost of food, and 118 per cent was the profits as year-olds. During the first year hens did better with plenty of exercise; during the second year the results were decidedly in favor of the hens that were yarded. The eggs from the hens penned up were a little heavier than the others. The eggs from Light Brahmas weighed twelve per cent more than those from Brown Leghorns.

The Dominion of Canada Department of Agriculture has been carrying on some experiments in fattening poultry and the results as published show that there is a double profit in fattening—it adds to the weight and adds to the value of the edible portion, as is the case in every meat.

One hundred and thirty-three chickens when put up weighed 575 pounds, being an average of four pounds, five ounces each; after being fattened for forty-three days the chickens weighed 916 pounds, being an average of six pounds, fourteen ounces each. That showed an average gain of two pounds, nine ounces per chicken, most of which was an increase in the edible portion of the bird.

The quantity of food consumed during the whole period was 1,738 pounds of ground grain and 2,589 pounds of skim-milk. The quantity consumed per pound of increase in the weight of the chickens was five and one-tenth pounds of grain plus seven and one-half pounds of skim-milk. The cost per pound of increase was practically six cents for the food consumed.

The fattening gave increased value to every pound of light weight at which the chickens were put up. The chickens, when put in, were worth at the outside six cents per pound, which would be equal to twenty-five and three-fourths cents each. The same chickens when fattened, were better value to the consumer at ten cents per pound, which would be equal to sixty-eight and three-fourths cents per chicken. To give each chicken the increased value of forty-three cents, the food consumed was worth fifteen and one-half cents. That does not allow anything for the labor of fattening the chickens.

### Keep Fowls Confined.

In previous articles we have given reasons why we thought it most profitable for the farmer, and all other poultry keepers, to have their fowls confined to yards instead of running at large. Now we will give one reason why it is better for the consumer of eggs and poultry that they should do so. It is the same which we once heard a man give for wanting his hens let out instead of remaining confined in the yard: "When the hens are let out they pick up lots of feed, and eat just what suits them best."

Now, in the matter of choosing her food, the hen has neither wisdom nor good judgment. She will eat anything that is fit to eat and many things that are not. Nothing is too filthy nor too disagreeable in flavor for her. She seems to lack the senses of taste and

smell. Not having tried them, we will not say that the ordinary bugs and worms, butterflies and grubs are not as good flavored and wholesome as beef-steak, but she would as readily eat meat in the last stages of decay, and take her water from the drainage of the barnyard or cesspool as from the purest brook.

We always had some sympathy with the young lady from the city, of whom it was said that she declined chicken at the dinner table because she had been watching them at work in the barnyard, and she preferred a piece of tripe instead.

Whatever may be the cause, and we think it is this lack of discrimination in feeding and drinking, we know that the egg of the hen or the flesh of the chicken that has an unlimited range on the farm has a rank flavor usually, which makes it far inferior to the product of those which are yarded and fed with a suitable variety of feed, all of which is selected as being sweet and wholesome.

Everyone may not notice it, as we have heard some say they could not tell the difference between a fresh-laid egg and one that had been kept three weeks, or, if in cold storage, for months possibly. Luckily all people are not alike in their tastes.—*American Cultivator*.

### Eggs From Different Breeds.

The Michigan Station has recently reported a study of the chemical composition of eggs from different breeds of hens. These were Brown Leghorns, Barred Plymouth Rocks, Buff Cochins, Silver Gray Dorkings, White Wyandottes, and Partridge Cochins. The variation in composition of the eggs of the different breeds was too small to be regarded as of any practical value. It would undoubtedly be no greater than the variations between different samples of eggs from the same breed. The effect of the character of rations on the composition of eggs was also tested with two lots of Barred Plymouth Rocks, Wyandottes, and Brown Leghorn hens. The test covered six weeks. Lot 1 was fed a mixture of one part of meat scraps, eight parts of wheat, and one part of oil meal. Lot 2 was fed with a mixture of seven parts of corn, one part of tallow, and two parts of rice meal. Both lots were given lettuce and oyster shells in abundance. No marked variation in the composition of the eggs due to different rations was observed, but the test is not regarded as conclusive, since it was of short duration.—*The Horseman and Stockman*.

### Fattening Poultry.

To fatten poultry for market, remove from the yards and place, without overcrowding, in a coop which should be provided with a canvas cover to draw down and keep the inmates in darkness. Do not feed for about six hours after placing in the coop, and then feed all they will eat. Feed three times a day, and keep fresh water and a basin of grit always before them. After feeding, draw down the canvas and leave them in darkness until an hour before the next meal. Oatmeal, barley, and buckwheat meal, mixed with milk, makes an excellent food for fattening. Two or three weeks of this treatment will render them ready for dressing.

### TOO LATE FOR CLASSIFICATION

**BLACK LANGSHANS.** 3 fine cockerels, Remington stock, \$3 each. **HERBERT M. HOWES**, Winchester, Mass.

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**BANTAMS.**—White and Black-Tailed Japanese, Bearded and Plain White Polish, Golden and Silver Sebright, Black, White, and Buff Pekin, Silver Duckwing, and Red Pyles. Also Japanese Silkies and White Crested Black Polish. No catalogue. **MARK HURD**, Marshall, Mich.

**FOR SALE OR EXCHANGE**, for chickens, in part or whole, two 200-egg incubators; two thoroughbred cockerels; and a few rare Crested Pekin Ducks. Address, **F. F., Care The Feather**.

**FOR SALE OR EXCHANGE.**—White Wyandottes. Five hens and cock, which are first-class stock; also White Fan pigeons always for sale. Number-one stock. **J. R. COOMES**, Lynchburg, Va.

**FOR SALE BANTAMS.**—Buff Pekin, a pair, \$5; White P. Rock, 1 cock, 2 pullets, \$7; Black Breasted Games, 1 cock, 3 pullets, \$10; other pairs from \$1.50 to \$2.50. **WADE W. WINDHAM**, Plattsmouth, Neb.

**BARRED ROCKS EXCLUSIVELY.** Bred for practical and fancy points. "Ringlet strain." Old and young stock for sale low. Single birds, pairs, trios, etc. Satisfaction guaranteed. **F. S. WEINHOLD**, Denver, Pa.

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**A BIG BARGAIN.** For 30 days I will sell White Wyandotte cockerels, April and May hatched, for \$1 and \$2 each. They were raised from a pen bought direct from **Duston**. **C. M. BARTLETT**, Agnewville, Va.





THIS department is given over freely to our subscribers. Queries will be answered as promptly as possible and in the order received. Correspondents are requested to write on one side of the paper only, and be brief and to the point. Short articles of general interest to poultry and pigeon breeders, records of laying, recipes for feeding, plans of houses, appliances, etc., are solicited for publication in these columns.

### Practical Thoughts.

The fall is with us.  
Early molters pay best.  
Keep the youngsters growing.  
Geese fatten readily and pay well.  
Stuffing is only good for dead fowls.  
Prevention is much easier than cure.  
The glory of the old hen may now be past.  
Try to discover why your hens do not lay.  
The poultry business is no "monkey" business.  
Dreams in poultry generally end in nightmares.  
Ample room keeps fowls healthy with the least trouble.  
Don't wait for the snow, prepare for it while you can.  
Turkeys should be well advanced—their time is coming.  
Vermin have much to do with the diseased condition of poultry.  
Women and poultry make an excellent combination—even in the kitchen.  
Poultry in confinement must be fed differently from poultry having free range.  
It is not so much the question as to which is the best breed, as it is which you can breed the best.  
It is rightly said that the best place for a poultry farm is within driving distance of a large city.

### Judging.

*Editor The Feather:*

There has been, and is now, a great deal being said through the various poultry papers in regard to the different methods of judging fowls at our poultry shows.

I think advocates of comparison judging are shooting wide of the mark when they claim this to be the only true way of judging. Judges are just as apt to vary in their opinions or judgments in comparison shows as they are in a score-card show, and I think more so. I claim that our poultry shows are for the education of the fancier and advancement of interest in poultry breeding, and they are especially intended to interest the novice and to educate him or her in poultry breeding. There is no system of judging that can take the place of a system which gives a certain value to each section, that value decreasing in proportion to the amount of the defect.

The novice in taking his birds to the score-card show gets the judgment of a competent poultry judge and carries home with him a score-card that he may have constantly before him during his next season's efforts. In looking over his card he discovers he has been cut very badly, perhaps on symmetry, perhaps on comb, on legs, on wing-barring, on body-color, or on other sections. Now then, he goes to work and makes up his breeding-pens with the purpose of improving these sections. Next winter he takes the result of these matings to the score-card show and finds he has, according to his score-cards, made wonderful improvement on all the sec-

tions, and he has also discovered he is on the right track towards perfecting his birds.

When he offers these birds for sale that have been passed upon by a score-card judge he has not only his own judgment of the worth of the birds for sale, but he also has the judgment of a competent expert, who says the bird is worth so many scores, and gives the cuts for each section. The man who buys such birds can see at a glance at the score-card where they are weak and whether they are weak in same sections in which he wishes to improve or not. Were these birds judged by comparison the story would be different. The judge would pass through the class, taking first one bird out of the coop, then another, giving each bird and section a quick glance and after he had looked them carefully over he would place the ribbons, but nobody would know but himself where and in what sections they were lacking. No bird is perfect, and should need some improvement.

Our poultry judges need as much schooling as does a person who enters any other profession, for it is one of the professions and one of the hardest of them to learn, and I am thinking that the time will come when we will have colleges for the instruction and fitting of poultry judges. The only fault any one can find with the present system of score-card judging is the lack of uniformity which can only be done away with by education. I think as Bro. Hewes does, that judges should meet at least once a year in convention and look the work over carefully together and make uniformity the prevailing thought for discussion.

I have just been reading T. F. McGrew's article in the *Reliable Poultry Journal*, entitled "Science of Breeding," in which he touches upon the judging question. He says under score-card system that little attention is given to shape, and birds under this system win upon color qualities, principally. Now, I would like to ask Mr. McGrew why so? He says that birds that are to be judged by score-card are stirred up in their coops and a glance given them for the purpose of seeing how near they come to representing the proper shape and style of the breed to which they belong, according to the Standard; and that the comparison judge takes them out of the coop and goes over each section carefully and compares their symmetry, shape, and color. Now I would like to ask Mr. McGrew if the score-card judge doesn't also take the birds from the coop and go over each section care-

fully. I can not see how a judge is going to avoid taking notice of symmetry and shape of the different sections when the score-card is before him calling for each section to be passed upon. It must be passed upon or else left blank.

There is one thing certain, if these sections calling for shape are not carefully passed upon, it is solely the fault of the judge; because he has just as much chance to notice these sections as does a comparison judge, and the comparison judge has no more chance than has the score-card judge. If a bird wins on color qualities, as Mr. McGrew says it does under score-card system, it is absolutely the fault of Mr. Judge. Doesn't it look reasonable that a score-card judge has just as good a chance to judge shape in an exhibition coop as a comparison judge? Doesn't he have just as good a chance with the bird in hand? I stated at the outset of my article that the show-room should be an institution for the means of educating the novice. This must be true if we wish to have the poultry fancy expand and grow larger. Of course, it would make little difference if there were only a very few leisure men in the fancy who had lots of time to study and make themselves capable of judging their own poultry, leaving the novice out entirely. But not so. Every poultry paper we take up has more or less to say towards urging new volunteers into the poultry fancy. Shall we judge their birds so they can know why they *did* or *did not* win, or shall we say to them, "Guess at it. We are too busy to tell you. Find out for yourselves"? The latter plan will surely work an injustice to the fancy poultry business in my humble opinion.

HENRY TRAFFORD.

### The Care of Fowls.

*Editor The Feather:*

And this is not the least of the important parts of the chicken business. Care is a very small word of four letters, but they mean much to the fowls and the boss. To enumerate all details of the care of fowls would take up altogether too much space. But only to take up some of the important parts—the chicken-house should be cleaned out every other day, rain or shine, and aired every day, winter or summer, except on rainy days, when it should be closed. The dropping should be taken up at least every other day. The roosts should be movable, and they should be taken down and painted with Lee's Lice Killer or any other liquid licekiller that you know to be good (I know Lee's is good), and paint the sockets that the roosts rest in, then replace the roosts, and that will do the business for the lice and mites. Whitewash the house at least four times each year inside and outside, using plenty of crude carbolic acid with the whitewash.

In taking up the droppings, scrape the floor well, and sprinkle the floor with air-slacked lime. I use board floors, covered above one-half inch deep with road-dust and coal ashes mixed. Put all of the droppings in barrels or boxes and keep them well covered to keep the fowls from them; also keep plenty of road-dust in the house, so that the fowls can dust themselves, as the dust-bath will help to keep the vermin down. Don't use too much glass in the house, if you keep any of the large-comb breeds; if you do, their combs will become frosted. Last, but not the least of the furnishings—hang up a good thermometer in the house. Keep plenty



of ground oyster shells, both fine and coarse, also grit, mica crystal, and flint, and keep ground charcoal where they can have easy access to it at all times. You should be very particular on these points, as I consider them of the very first importance. The drinking-vessels should be washed out good and clean every day, and scalded once each week, as that is another of the very important things that must not be neglected. Give the fowls fresh water two or three times a day, especially during hot weather, and you will see them come up and drink every time you give them fresh water.

Now, Mr. Editor, I must close, but will add that we must look after the very smallest details; we must take every precaution against sickness and lice; we must see that the fowls are comfortable, and we must be regular in all things—in feeding, watering, and in our care of them, for they will surely do their part by us if we do our part by them. Any one with regular habits in the care of their fowls will succeed, but if they get too tired to look out for themselves and have to hire some one else to look out for them—well, “there are others” who have failed, so will they.—E. D. CROUCH.

#### Feeding Linseed Meal.

*Editor The Feather:*

Will you kindly insert in the next issue of THE FEATHER an article on the use of linseed meal for poultry? Some advocate using it sparingly, others the reverse. I very much desire reliable information.—N. E. W., Bethel, Vermont.

Old process linseed meal is a valuable constituent of a properly prepared poultry ration. It may constitute five to fifteen per cent of the ration, the exact quantity depending upon the other articles with which it is combined. Its special importance is due to the concentrated form in which it furnishes its nutritive constituents, particularly its protein; its usefulness in compounding feeding mixtures of a narrow ratio, and its effect in facilitating molting. Its composition is as follows:

|                    | Protein | Carbo-hydrates | Fats | Nutritive Ratio |
|--------------------|---------|----------------|------|-----------------|
| O. p. linseed meal | 32.9    | 35.4           | 7.9  | 1:1.6           |

There is very little study needed to convince any one that linseed meal must be balanced up with other grains to make a suitable ration. By itself, it gives too large a proportion of protein, and not enough carbohydrates.

The following example of a mixed ration will serve to illustrate the plan to be adopted:

*Poultry ration containing linseed meal.*

|                         | Protein | Carbo-hydrates | Fat  | Nutritive Ratio |
|-------------------------|---------|----------------|------|-----------------|
| 300 lbs. cornmeal....   | 31.5    | 210.3          | 15.0 |                 |
| 200 lbs. ground oats... | 23.6    | 119.4          | 10.0 |                 |
| 100 lbs. wheat bran...  | 15.4    | 53.9           | 4.0  |                 |
| 50 lbs. linseed meal... | 16.4    | 17.7           | 3.9  |                 |
| 50 lbs. animal meal...  | 20.0    | ....           | 8.1  |                 |
| 700 lbs. mix. contains  | 106.9   | 401.3          | 41.0 |                 |
| 100 lbs. mix. contains  | 15.3    | 57.3           | 5.9  | 1:4.6           |

As such a mixture is generally fed only once a day, or at most twice a day, in the form of a mash, and cracked corn,

oats, buckwheat, or wheat given at one feed, the quantity of linseed meal in the mash in such cases may be increased to 100 lbs. in which case the mixture would be as follows:

|                          | Protein | Carbo-hydrates | Fat  | Nutritive Ratio |
|--------------------------|---------|----------------|------|-----------------|
| 300 lbs. cornmeal....    | 31.5    | 210.3          | 15.0 |                 |
| 200 lbs. ground oats...  | 23.6    | 119.4          | 10.0 |                 |
| 100 lbs. wheat bran...   | 15.4    | 53.9           | 4.0  |                 |
| 100 lbs. linseed meal... | 32.9    | 35.4           | 7.9  |                 |
| 50 lbs. animal meal...   | 20.0    | ....           | 8.1  |                 |
| 750 lbs. mix. contains   | 123.4   | 419.0          | 45.0 |                 |
| 100 lbs. mix. contains   | 16.5    | 55.9           | 6.0  | 1:4.2           |

The first ration contains about 7 per cent and the second 13.3 per cent of linseed meal; while doubling the quantity of this constituent narrows the ratio from 1:4.6 to 1:4.2. When birds are molting, a liberal proportion of linseed meal in the mash is a decided advantage and should not be forgotten.—D. E. SALMON.

#### Plymouth Rocks—September Pullets.

*Editor The Feather:*

Will you please tell me in your next paper the shape of the Barred Plymouth Rock, also color, whether light or dark? How would you feed for September to make the chicks lay early?—R. C. R., Castleton, Vt.

It would be almost impossible to describe the shape of the Barred Plymouth Rock so that you might intelligently understand the same. We will, however, in an early issue of THE FEATHER, publish drawings of the shape of both male and female. The plumage of the Barred Plymouth Rock is described by the Standard as “bluish-gray, barred with narrow parallel lines of a dark blue that stop short of a positive black; the barring to be close in all sections of the body and on neck and saddle hackle

narrower, and closer than in other sections.” Feed the mash ration of clover and bran, as has been published in THE FEATHER, and vary the grain diet. Feed green cut bones twice a week, and keep pure water before them always. The largest pullets should be placed in the houses which they are to occupy during the winter.

#### Don't Know These Birds.

*Editor The Feather:*

Will you please tell me through the columns of your paper, or otherwise, what Gold and Silver Paduans are? They are raised in Turkey. Are they anything different from what we have in America?—C. E. S., Port Chester, N. Y.

In reply to our correspondent's query will say that our information regarding this variety of fowls is very limited. The only thing we can give of them is the mention found in Tegetmeier's Poultry Book, as follows: “The Paduans are kinds of gallinaceous birds, larger than ours, which are commonly called Patavinians.” He describes the male as having five colors in plumage, black, white, green, red, and ochre; the female he describes as being of a greenish-black color, with yellow feet. We hardly think this will apply to what our correspondent describes as gold and silver. Perhaps some of our readers can enlighten us as to the particulars of this variety of fowls. If so, will be pleased to receive same.

#### Stunted Chicks—Sore Head.

*Editor The Feather:*

1. Please tell me what caused the wings of my chicks to grow very long, look stunted, and afterwards die. I can not find any lice. 2. Some of my old hens have small bunclcs (sores) under the eye; they don't look sick yet. What is the matter with them?—M. H., Graniteville, Mass.

1. Improper food, too close confinement, chilly or damp coops, vermin, and many other complaints have caused your chicks to become stunted. Just which one of the above has caused the

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loss of your chicks, we are unable to say. 2. Your hens, no doubt, have the sore head. Separate the affected birds from the balance of the flock and disinfect the premises thoroughly, with a solution containing three to five per cent of carbolic acid. Whitewash the house, nests, etc., inside and out. Bathe the affected parts with warm water and soap, and anoint the sores with glycerine containing two per cent of carbolic acid.

### Infectious Leukæmia Again.

*Editor The Feather:*

My fowls are affected with a disease that is quite new to me. The symptoms are few. The first we noticed was the reddening of the head, particularly the side. There is no diarrhea, but inability to swallow apparently. They are weak in the legs, and the head droops, and there seems no power in the neck, which lolls about, the point of the beak being often held on the ground. I have been giving them sulphite of soda, and when taken in time some soon recover, but others drop dead from the roost, having shown none of these symptoms so far as we know. I would be glad if you could suggest a treatment calculated to benefit them, as we are losing a good, or rather, a bad many. We use sulphite of soda in the general water for them.—S. P. N., Yardsville, N. J.

The symptoms are those of the disease known as infectious leukæmia, and is to be much dreaded. The disease is commonly called "limber neck" by not a few who are acquainted with it. A detailed account of the disease is to be found in our new book, "The Diseases of Poultry," by Dr. Salmon, and from it we quote you a portion of the treatment recommended for this complaint, as follows: "When this disease appears the poultry-houses should be cleaned and whitewashed. The floors should be sprinkled with carbolic acid in solution of five-per-cent strength. \* \* \* The sick fowls must be removed and isolated. Quinine in the dose of 1 to 2 grains has been suggested for the sick fowls. Sulphate of iron (copperas) in the drinking water is thought to be a good prophylactic remedy. Probably any stimulating and tonic treatment will prove beneficial after proper sanitary surroundings are secured."

### Two-Story Houses—Worms.

*Editor The Feather:*

I take the liberty of asking you a few questions. 1. Is sawdust good to use as litter in a henhouse, and will it do to feed grain in? 2. Is the plan of building two stories high good for a henhouse, the first story for roosting and laying, and the upper story for a scratching-room? I was thinking of building a house after this plan, but have never seen one, and would like to hear what you think of the idea. 3. I would be pleased to know what is best to feed chickens affected with worms.—A. B., Littleville, Mass.

1. Sawdust is of no good to use as litter. Hay, straw, or leaves should be used as such. 2. We do not think favorably of your plan for two stories to be used as you say. A two-storied house is good enough, and is in general use, but the upper story is used for the roosting-room, while the lower part is used for the scratching-shed. The front of the lower story should be left open so as to give abundance of light and air. 3. Garlic is recommended as a good remedy for fowls affected with worms; it should be mixed with the feed. Essence of turpentine mixed with twice its quantity of olive oil and given in doses of one tablespoonful, is probably the best remedy for fowls with worms.

### Weak Legs.

*Editor The Feather:*

Please give me a good remedy for weak legs in growing chicks.—J. F. N., London, Pa.

Avoid condiments, meat, and stimu-

lating rations of all kinds, and feed bran, barley, rice, green feed, skim milk, buttermilk, and vegetables. Dr. Salmon in his book recommends five grains bicarbonate of soda daily in the drinking water for grown fowls. The birds should have dry, well-ventilated quarters.

### Ventilation.

*Editor The Feather:*

Please inform us through your paper as to the kind of ventilator, if any, you would recommend for a poultry-house.—W. B. G. & Sons, Akron, Ohio.

We suggest that you do not use any ventilator in your house. It is difficult to have a ventilator in a poultry-house without having a draught. If you do not over-crowd the place, and keep it clean, the air will be sufficiently pure without other ventilation than is provided by a comfortably-built house.

### Dividing the Yard.

*Editor The Feather:*

Will you please tell me through THE FEATHER if it is any disadvantage to have one-half of the yard on the north side of the poultry-house?—B. A. H., Baltimore, Md.

While it is no disadvantage to divide your yard, yet it would be better if it were all on the south side.

### Lame Leg.

*Editor The Feather:*

1. I had a Brown Leghorn pullet that was very lame in her right leg, and I could find nothing the matter with it upon examination. She remained in this condition about three weeks. During that time her appetite lessened, she ceased to lay entirely, and her comb became quite dark and presented a very dull appearance, while at the same time she carried her tail very low, in fact almost touching the ground. She is now looking a great deal better, and although her comb is still drawn up she has ceased limping almost entirely. About a week ago another pullet, or rather yearling hen, became affected in the same manner only a little more seriously, and upon examination I discovered that her foot was swollen considerably. My roosts are only about two and a half or three feet high and I would hardly think that it could have come from jumping off them. Please advise, if you can, what was the matter, and suggest a remedy for same. 2. Should not the hackle of the Brown Leghorn male be of an even dark red and free from any shade of gold? 3. Although there is no standard weight, what is considered an ideal weight for a Brown Leghorn hen, pullet, cock, and cockerel?—J. M. J. H., Annapolis, Md.

1. It is our opinion that the birds have gotten splinters or other sharp fragments in their feet. Examine them carefully and see if you can not detect something of the kind. Poultice the foot and keep bird confined for a few days. No, we do not think it was caused by your roosts. 2. The hackle-feathers of a Brown Leghorn male should be a rich brilliant red, free from black or gold, and have a distinct black stripe down the center of each feather, tapering to a point near its extremity. 3. There is no ideal weight considered for Leghorns, and it appears to be the individual fancy of the breeder as to their size, some breeding a smaller bird than others. It is a point that is in dispute, but that should be settled.

### Early-Laying Pullets.

*Editor The Feather:*

We have in stock two Barred Plymouth Rock pullets, hatched January 25th, 1899; one of them began laying June 9th last, the other on the twenty-fifth of the same month. Kindly let us know through the columns of your valuable paper if this is not an unusually early age for them to begin laying, and will it interfere with their development?—F. & Co., Portland, Oregon.

These are rather early ages for the birds to begin laying, but not unusually so. We do not see how it could possibly interfere with their development, be-

cause it is only the well-developed pullets that lay the earliest. Their early laying shows the high type of development that is much sought after by practical breeders.

### Trouble With Hares.

*Editor The Feather:*

I am breeding Belgian Hares, and have some trouble with them. They are dying with what some people call "slabbers." They take this when about a month old and it is always fatal. They have some kind of slimy stuff in their mouth, and everything around their mouth gets sticky, and in a day or two they die. I have good houses and a nice lot for them, give clean food and water, and keep everything clean. I also breed English Rabbits, but they are not affected with this trouble. Now Mr. Editor, can you or some of the readers of THE FEATHER through you columns give me any cure or preventive for this trouble? I would appreciate it very much.—C. F. W., Boyce, Texas.

We trust some of our readers will be able to help our correspondent out of his difficulties. We are not well enough posted on the subject to do so ourselves, and for this reason we solicit the aid of our readers who have had experience in the matter. Let us hear from you.

### WE GIVE 'EM AWAY...

To every new subscriber to the SOUTHERN FANCIER, 50c. a year, we will give a year's subscription to any one of the following papers:

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Show will be cooped by Spratts Patent. Judges J. H. Drexelstedt and Louis Brown. Alfred Berling, Sec'y Poultry Department. Entries close October 27th, 1899, at 6 p. m. For premium list and entry blanks address,

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Prudential Building, Atlanta, Ga.



### Fowl Cholera.

*Editor The Feather:*

Is there any thing that will cure cholera? My turkey hens have it. I have lost three, and in a few weeks our fowls will take it. That is the way they do every year. My turkeys have the world for a range, I feed them hot mash mornings, grain nights; they roost outdoors. Some four or five years ago cholera broke out among my fowls, about ninety per cent died and I sold the rest. Had all the ground around the place cultivated for two years, burnt all the old houses, fencing, etc., and did not have a fowl on the place for two years, then built new houses and got new fowls, but the next spring cholera broke out in our turkeys and later our fowls took it. The loss was very heavy, about eighty per cent had it and seventy-five per cent of those died. If poultry papers would devote more space to "chicken cholera" and less to rump it would help poultry keepers more.—B. R. D., Davis, Va.

All forms of medical treatment for cholera have been unsatisfactory when tested sufficiently to prove their exact effects. Many preparations have been recommended, but their sanguine discoverers had not been careful to ascertain that they really were treating cholera, or they had tried them on so few birds that their results were untrustworthy.

The drugs most frequently used are sulphur, copperas, capsicum, alum, and resin, giving either alone or mixed together. The effect of these remedies is either stimulating or astringent or both according to the combination that is used. Some recommend a solution made by diluting one dram of hydrochloric acid with twelve ounces of water. This is given to adult birds in the dose of a dessertspoonful. We would not advise our readers to put much confidence in internal medication.

The proper manner of combating cholera is to carry out strict sanitary precautions. Remember that it is a contagious disease and that it depends upon germs which are in some way brought upon the premises from some other place where the disease exists. The contagion may be carried in various ways. Sometimes it is brought with newly purchased birds; sometimes it comes with eggs; sometimes it is carried by wild birds, and sometimes it is transported by animals. The poultryman must guard against the introduction of contagion into his flock by all means at his command. He must isolate and quarantine newly purchased birds for two weeks before they are mixed with his flock. If he hatches eggs from other yards, the nest and the young birds must be kept isolated until it is known that they are healthy, that is until the chicks are ten days old.

Dogs and other animals should be fenced out of the poultry-yards if possible. Birds which have been exhibited at shows should be quarantined for ten days after their return.

Should the disease appear in spite of precautions, isolate and disinfect. The isolation need not require a wide separation of the birds. Ten feet is sufficient distance to prevent the communication of this contagion, if it is not carried in some way from pen to pen by the attendant or by animals. It does not spread to any appreciable distance through the atmosphere.

Disinfection should be constant while this disease is on the premises. For this a solution may be made by mixing one pound of carbolic acid with twenty-four pounds, or say twelve quarts, of hot water. Or one pound of sulphuric acid to fifty quarts of water may be used. The latter is the cheapest but it is more dangerous to use. When the sulphuric acid is purchased have the druggist dilute it with twice its weight of water.

If thus diluted it will not burn the flesh or clothing as severely as when concentrated and there is little danger of an explosion when it is further diluted. When diluting it, always pour the acid very slowly into a comparatively large quantity of water, being careful that it does not splash into the eyes, and remember that considerable heat results. A wooden bucket is, therefore, better than a glass bottle, and, on account of its corrosive nature, metal vessels can only be used for the most dilute solution. If carefully used with proper precautions to prevent it flying into the face or eyes when diluting, sulphuric acid is the most satisfactory disinfectant. If any gets upon the flesh, apply large quantities of water at once, or it will burn very deeply; if it reaches the clothing it causes discoloration and soon destroys the fabric. It may be neutralized with ammonia or a solution of baking soda. With this digression concerning disinfectants we will now return to the methods of disinfecting. If possible move the fowls to new runs and new houses when cholera appears among them. Before they are moved, however, separate all which are apparently sick and put these by themselves. Now saturate the floor of the old house and all of the manure which is about it with one of the disinfectants just mentioned. This may be applied conveniently with a watering-can such as is used for watering flower-beds or gardens.

The healthy fowls of the flock should be confined to a small run, and this as well as the poultry-house should be disinfected by sprinkling at least once a day. The droppings should be swept up, disinfected, and removed at least once a day. The buildings should be well whitewashed and the disinfecting effect of this application may be increased by adding one quarter of a pound of carbolic acid to each gallon of lime.

The fowls should be carefully watched and if any show signs of disease they should be removed at once. It is possible to arrest an outbreak of fowl cholera in a very short time by adopting such measures. If they are persevered in for two or three weeks without any more birds becoming sick the danger may be considered at an end.

The difficulty of arresting outbreaks of cholera is usually due to the fowls being allowed to roam over an unlimited range. By the time the disease is recognized the contagion is widely scattered through the droppings of the affected birds. It is, of course, impossible to disinfect a large range, and, consequently, the birds continue to pick up the infection and one after another contracts the disease until the greater part is lost.

If it is decided to kill sick birds in order to get rid of the contagion as rapidly as possible, dig a deep hole, put the bird into it and kill them there, so that their bodies and blood will be buried together. Otherwise the blood, which is very virulent, may remain on the surface of the ground to cause another outbreak of the disease. The birds which die from cholera should in all cases be cremated or deeply buried.—DR. D. E. SALMON.

### Winning Minorcas.

Chas. L. Blanton, Falls Church, Va., breeder of "Blanton's Black Minorcas," and one of our continuous advertisers, writes us of his success at the Rockville (Md.) show last week. He won first Black Minorca pen, first Black Minorca cock, and first and second Black Minorca hens. Also second Barred Plymouth Rock pen. Mr. Blanton made no other entries, and had no young stock entered. He takes great pride in his birds, and with reason.

### Muscovy Ducks.

The Muscovy Duck is one of the largest of the duck family, and is very hardy. Crossed with the Pekin or Aylesbury breeds, a superb fowl for market results. The cross-bred birds are sterile and the eggs do not hatch, which indicate that the Muscovy may not be a true duck. Their eggs require the same length of time for hatching as do those of the goose.—*Utah Experiment Station.*

## ...BLACK...

I can supply fanciers with a most select lot of birds, singly, in pairs, trios, or yards suitable for exhibition or breeding purposes. These birds are the product of the intelligent mating of the very best birds obtainable; are of true Hamburg shape; are especially good in head points and are bred from birds that are extraordinary layers. Satisfaction guaranteed in every instance.

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Here's a Chance in a Lifetime!

**25 Machines, 1899 Model,**

390-Egg Capacity, Price \$49.60.

Which we will sell for \$35 as long as they last. We have discontinued building this model and for this reason make this sacrifice in price. Better order quickly and get one of these bargains.

**Star Incubator and Brooder Co.,**  
BOUND BROOK, N. J.





CONDUCTED BY J. C. LONG, NEW YORK CITY.

### Pigeon Notes.

Provide grit.  
Molting time.  
Clean up regularly.  
Don't frighten your birds.  
Good breeders breed the best.  
Parent stock should be the best.  
Pure air in the loft is necessary.  
Odd birds in a loft are nuisances.  
Salt should always be in the loft.  
The squab market is always good.  
Pigeon Pouters are gaining friends.  
Pigeon beauty is of the highest order.  
Squabs should be a common article of food.  
Separate the youngsters from the older stock.  
Every fancier is desirous to excel in the show-room.  
The birds delight in a daily bath; it is half their life.  
Condition and training are half the battle in showing birds.  
Pure food and fresh water count for much in raising pigeons.  
Time and patience are required to establish a good stud of birds.  
Don't court failures by branching out too largely in the business.  
This has been an excellent season for the Homing Pigeon fancy. Some splendid records have been made.

### ORIENTAL FRILLS.

A Most Beautiful and Attractive Family of Pigeons.

BY J. C. LONG.

**T**HOSE members of the family Columba known as the Oriental Frills, are among the most beautiful and attractive of this great family. In form they much resemble the Turbits and many on first acquaintance regard them as another variety of these favorite birds. They are, however, a trifle larger and all have feathered legs, a feature not permissible with Turbits. They are natives of Asia Minor, and while comparatively new to us, it is said they have been bred for a century in their native country. While resembling each other in general characteristics of form and size, they differ materially in color, and this variation in color gives them a corresponding variety of names. Hence we have the Satinette, Blondinette, Brunette, Bluetette, Silverette, Turbiteen, Vizor and Domino. They are rather difficult to breed to color, consequently it requires much care and good judgment in mating them. For this reason they are not general favorites and by no means plentiful. Their standard qualities are:  
**SIZE.**—A trifle larger than the Turbit.  
**CARRIAGE.**—Erect, proud and graceful.

**FORM.**—Compact and plump and well rounded.

**HEAD.**—Of good size, broad and well arched, gracefully rounding from base of beak to back of the skull. Well filled out between eyes and beak.

**BEAK.**—Very short, thick upper mandible curved downwards in continuation

of the line of the skull. Lower mandible straight and fitting closely into the upper.

**BEAK WATTLE.**—Small, fine and powdery white in color.

**EYE.**—Large, prominent and bright. Located about in the center of the head. Color, dark hazel.

**EYE CERE.**—Small and fine in texture.

**CREST.**—Rising neatly from base of skull and narrowing to a fine point reaching just above the top of skull. In some specimens of all these varieties the crest is wanting, when they are known as plain heads.

**JOWL.**—Full and round.

**GULLET.**—Full and well developed, beginning near the point of the lower mandible and reaching well down till it meets the frill.

**NECK.**—Short, nicely arched and tapering gracefully from shoulders to junction with the head.

**FRILL.**—Large, formed of small feathers curving outwardly from center of the breast and reaching from the junction with gullet well down the front of the breast.

**BODY.**—Short and well rounded, tapering to the tail.

**BREAST.**—Broad and full and carried well forward.

**WINGS.**—Broad at shoulders.

**FLIGHTS.**—Moderate in length and carried close to the body and in a line with the tail.

**TAIL.**—Short and closely folded.

**LEGS AND FEET.**—Medium length and covered with short, soft feathers reaching to toe-nails. What is known as Grouse muffed.

#### THE SATINETTE.

**COLOR.**—Head, neck, body and thighs pure white; beak, flesh colored; eyes, hazel or bull. The shoulders have a ground color of a delicate pinkish cast gradually deepening to a rich brown at the end of each feather, which is finally penciled with a purplish black line. This penciling takes two different forms, one known as arrow pointed, the other as laced. Either is admissible, but needs to be clear and well defined.

**FLIGHTS.**—From seven to ten in number and pure white.

**TAIL.**—From a well-defined line across the rump is of a purplish blue color, ending in a band of a darker shade about

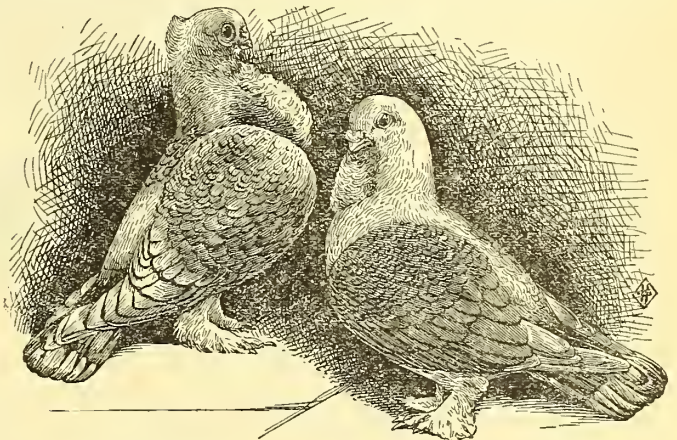
one and a half inches in width. About in the center of this band and on each tail-feather is a round white spot about half an inch in diameter, the dark shaft of the feather showing plainly through it, the outer web of the outside feather being usually white.

**LEG FEATHERING.**—Pure white.

**BLACK SATINETTES.**—Same as above only showing black and white alone in its markings.

**SULPHUR SATINETTES.**—Same as above only showing sulphur ground color, instead of pink with the darker shading on its shoulders.

The variety of Oriental Frills known as Blondinettes is said to have been produced by a cross of Blue and Silver Owls or Satinettes. In this variety the head, neck, body, breast and thighs are of a solid color, while the wings are white, tinged with pink, each feather being edged or laced with black or very dark brown, and ending at the point in the form previously mentioned as arrow pointed. The shaft of the feather should also be dark, shading outwardly to a lighter color, thus giving the feather the appearance of being laced both on edges and in the center. This lacing should extend to the saddle or rump. The flights are of same ground color as the wings on inner web, shading to a darker color on outer web. At the end of each feather is an oblong white spot with a dark lacing around it,



BLONDINETTE.

SATINETTE.

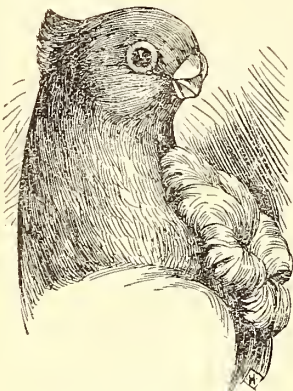
#### ORIENTAL FRILLS.

this dark lacing being also found on the edge of each feather. The tail is of a darker shade than the body, ending in a still darker band, and in this band appears a round white spot edged with brown or black. The tail when closed, has the appearance of having a white band across it made by these spots. When spread and in perfect condition, these spots prove very attractive. The neck of this variety is beautifully tinged with a lustrous sheen embracing all the beautiful colors seen in the spots on the peacock's tail. The colors of the Blondinette are black, dun, blue, red, yellow, sulphur and silver, and according to this color they are known as Black Blondinettes, Blue Blondinettes, etc. The color of their eyes varies from dark brown to orange and gravel according to the color of the body of the bird, and in like manner their bills shade from black to a lighter color.

#### BRUNETTES.

These are an offshoot or sport from Satinettes, and have a similarity of marking, except that the tint is of a





HEAD OF ORIENTAL FRILL.

delicate gray color, the marking or penciling being of a darker gray. The tail is of some gray color ending in a darker band, and with the white spot at end of each feather.

**BLUETTES.**

These have the same color of neck and body as Satinettes, but have blue shoulders with wing-bars edged with black and then shading into a pink. Tail blue, with the white spots edged with dark blue. Wing-primaries white.

**SILVERETTES.**

These have pale silver-gray wing-bows or shoulders, each feather edged with a darker shading of gray, but blending so with the main color as hardly to be noticeable. Bars should be white edged with brown or very dark gray. Tail, gray, with white spots edged with dark gray. Wing-primaries, white.

**THE VIZOR.**

This variety of Oriental Frills resembles the Bluettes in marking of wings and tail, but in addition the head should be of same color as wings. The line of color extending from the back of the head begins at the lower part of the crest and extends in a clearly defined line to the point where the gullet meets the upper point of the frill. This coloring closely resembles the coloring of the head of a Nun. According to the color so the birds are known as Black Vizors, Blue Vizors, etc.

**TURBITEENS.**

This variety of the Orientals much resembles a Turbit in form and general characteristics, having the same shaped head and body, with the frill, the peak, and colored shoulders. But in addition its legs and feet are covered with feathers like other Oriental varieties, and its forehead and cheeks or jowls are colored the same as the wings. The colored spot on the forehead is oval-shaped, appearing as if some one had wet the ball of the finger with a dye, and pressed it against the forehead. Those on the cheeks are pear-shaped, and extend from the beak to the base of the crest just below the eye, the narrow point of the marking being at the beak. The three spots should not run into each other, but be divided by a line of white from one to the other. Birds with only the forehead markings are allowed, but those with the three spots are preferred. Also, birds without peaks or crests are allowed. All the colors known to the Turbit family are admissible. These are a difficult variety to breed true, but very attractive when perfect. Upper mandible of beak dark, lower mandible white.

**THE DOMINO.**

This variety also is numbered among the Orientals. This bird's head should be colored like a Vizor's, only the color should extend farther down the neck, forming what is known in Nuns as the bib. Its body and legs are white, but its shoulders and tail should be of one solid color throughout. Primary feathers white. Legs like the Turbit, free from feathers.

**COMMON DEFECTS AND DISQUALIFICATIONS OF ORIENTAL FRILLS.**—Foul breasts and thighs, scarcity of leg-feathering, foul feathers in wings and tail, lack of spots, irregularity of wing-lacing, poorly shaped peaks and crests, and absence of frill.

**The Turbit's Standard.**

*Editor The Feather:*

Please publish in your next issue, if possible, the Oriental Turbit Standard, head, wing-marking, etc.—A SUBSCRIBER, Frostburg, Md.

We give below the Standard by J. C. Long:

**SIZE.**—Small. A little less than that of English Owl.

**CARRIAGE.**—Erect and graceful.



WING AND TAIL OF LACED BLONDINETTE.

**HEAD.**—Large, round, broad between the eyes, curving evenly upward from tip of beak to crown of the head, and then sloping slightly to where the peak or shell starts.

**PEAK.**—A group of feathers springing from the back of the head, quite full at the base and tapering nicely upwards, ending in a point about on a level with the crown of the head.

**SHELL.**—A group of feathers starting at the base of the skull just back of the eyes and curving nicely and evenly forward, the top about on a level with the crown of the head.

**MANE.**—An elongation of the feathers of the neck, commencing at the base of the neck, gradually increasing in length until they neatly unite with the crest or shell.

**BEAK.**—Short and thick. The upper mandible curving downward, the lower mandible quite straight and fitting closely to the upper, and of a flesh color.

**WATTLE.**—Full, but fine in texture, of a powdered white color and conforming to the curve of the head.

**EYES.**—Full, round and large, situated well up in the head and of a dark hazel color, known as bull.

**JOWL.**—Quite full and neatly rounded.

**GULLET.**—Large, filling the hollow in the throat well up, and extending down to the frill.

**FRILL.**—Composed of soft curling feathers, commencing just below the jowl and reaching well down the breast, starting from the center of the breast and extending both ways outwardly, increasing in width as it descends.

**NECK.**—Short, thick at base, but tapering neatly to point of juncture with the head.

**BREAST.**—Full, broad, and prominent.

**BODY.**—Full, round, and compact.

**BACK.**—Straight.

**WINGS.**—Broad at shoulders, carried closely.

**FLIGHTS.**—Short, and resting above the tail. The ten primaries white, secondaries colored like the shoulders.

**TAIL.**—Short and closely folded.

**LEGS.**—Short, free from feathers, coral-red in color, ending in small feet, tipped with flesh-colored nails.

**COLOR.**—All pure snowy white, except the shoulders in Wing Turbits, and tails in Tail Turbits, which may be black, blue, red, yellow, dun, or silver, each color bright, rich, and glossy. The blue having two broad, even black bars across the lower part. The Silver two, of a dark dun color.

**SOLID COLORS.**—To be of a rich, even color throughout, with all the characteristics of the Wing and Tail varieties.

**COMMON DEFECTS.**—Long, narrow heads, spindling beaks, imperfect peaks and crests, the same too far down on the neck. Small, deficiently developed frills, foul shoulders, flights, thighs, and tails. Lack of soundness in color.

**DISQUALIFICATIONS.**—Long, spindling beaks, foul necks, breasts, shoulders, tails, or flights. Crests or peaks not well developed and carried to one side. Feathered legs, disease and deformity of any kind.

There is a plain-headed variety of Turbit sometimes met with, and by some called Colored Winged Owls. This standard will apply to them, with the exception of mane and crests.

**A Long Flight.**

A Homing Pigeon, belonging to Fred J. Ruoff, of Detroit, Mich., reached home Sunday, July 23, after having traveled all the way from Mexico. Some weeks ago Ruoff shipped his bird to Monterey, Mexico, to some friends of his, and on June 25 it was released from the top of the city hall of that place in the presence of the mayor and city officials. It at once commenced circling about and was finally lost in the distance. It was predicted then that Ruoff had seen the last of his bird, but at 10 o'clock Sunday morning the pigeon arrived at its owner's loft. The name of the bird is Cock 19, and last summer it accomplished all the way from fifty to 1,000 miles without losing a feather.

**Homer Lost.**

Mr. E. L. Barclay, 812 21st St. N. W., this city, reports the loss of a Red Check Homer cock, banded C 26573. Any information in regard to its whereabouts will be gratefully received.

**SPECIAL OFFER.**—Will dispose of a limited number of August, September, and October Homer youngsters at \$1.50 per pair. Have also a few choice cock birds for sale cheap. **THE IDEAL LOFT, E. L. BARCLAY, Proprietor, 812 21st St. N. W., Washington, D. C.**

**MOST NOTED STRAINS.**

Pairs, trios, pens of B. P. R., Sherwoods, Cornish I. Games, White and Silver L. Wyandottes, Buff Leghorns, Blk. Javas, breeders of 1899. Young stock of same breeds; also Buff Wyandottes and Buff Plymouth Rocks Sept. 1st. No more eggs this season. Prices right.

**A. R. MARKEL, Tyrone, Pa.**



## PROSPEROUS TIMES.

Flattering Testimonials from the Advertisers in The Feather.

(Continued.)

### A Successful Season.

That the past season has been a prosperous one for poultrymen generally, is evidenced by the numerous testimonials published below. Last month we made the following inquiries of our advertisers:

1. Has your trade this season been satisfactory to you?
2. Has THE FEATHER given good results in advertising?
3. What is the outlook for the coming season?

The responses have been more than encouraging and bespeak of the good times that are in store for the fraternity. Our readers will find much to interest them in the answers herewith given, and they will materially help those who contemplate doing advertising to form a good basis for their work, that they may have the good results these advertisers have:

Our trade has been fair. THE FEATHER has been a good medium of solicitation. The outlook for the coming season is only fair for us.—H. E. VAN DEMAN & SON, Parksley, Va.

Trade has been the best we have ever had in stock and eggs. THE FEATHER is strictly in it. The outlook for the coming season is A No. 1.—GEO. H. BURGOTT, Lawton's Station, N. Y.

Our trade this season has been satisfactory. THE FEATHER has given good results in advertising. The outlook for the coming season is very prosperous.—THOS. WILLETTTS, Lowell, Mass.

My trade this season has been satisfactory. THE FEATHER has given me good results as an advertising medium. I consider the outlook for the coming season as good.—DR. W. A. GIBSON, Jackson, Mich.

My business this season has been satisfactory in more respects than one. THE FEATHER has given good results in advertising. I think the outlook for the coming season is good.—F. G. RICE, Dansville, N. Y.

My trade this season has been good. THE FEATHER has done its share as an advertiser. The outlook for the fall trade is good. I have the finest lot of chicks I ever had this time of the year.—E. F. TIFFANY, Brooklyn, Pa.

Our trade has been very satisfactory the past season. THE FEATHER is one of the best. It has done well for us, and it is all right. I think the outlook is very favorable for the coming season.—L. BROWN, Middleboro, Mass.

My trade has been very good this spring and summer. THE FEATHER has given me good results, bringing orders and inquiries from the Dominion to the Gulf. The outlook for the coming season is good.—MILTON W. WOXN, Paw Paw, W. Va.

Trade has been very good, but we are always looking for more business. I consider THE FEATHER a good advertising medium, and will be with you right along. Think the outlook for the coming season is good.—D. A. MOUNT, Jamesburg, N. J.

This has been the best season I ever experienced. Sales in both stock and eggs very satisfactory. Much of this business is due to THE FEATHER. Many inquiries now for fall delivery, which indicates big trade.—DR. F. M. ROBINSON, Pawling, N. Y.

Our business the past season has been very satisfactory. THE FEATHER has given us good results, especially from the classified advertisements. We have over 300 very promising Buff Cochins chicks, and expect THE FEATHER to help us sell them.—A. W. RUDY & SON, Hagerstown, Md.

My egg trade this season is more than satisfactory in every way. I have sold and shipped more eggs for hatching this year than any preceding year. THE FEATHER has given me good results. If it did not, I should not have given it my patronage for over three years.—J. M. PORTER, Morristown, N. J.

My trade for the year from July 1st, 1898, to date (June 22, 1899), has been entirely satisfactory. THE FEATHER has done well for me this season. Your southern readers are taking hold of my Buff Plymouth Rocks. The outlook, for this variety at least, is very promising.—H. S. BURDICK, Rome, N. Y.

Trade has been very satisfactory. Surplus stock all sold early in the season. Have sold 1450 dozen eggs for hatching from January 1st to June 1st. My ad in THE FEATHER has given good results. From the outlook, the coming season will be better than the past.—R. G. BUFFINTON, Fall River, Mass.

Trade has been more than satisfactory. I have been greatly blessed, thanks to all who bought of me. THE FEATHER has paid well. Sold lots of stock and eggs for me. Fine people, too, to deal with—gentlemen. I expect 1899-1900 to be larger in point of business. More money in circulation. People will buy.—W. W. KULP, Pottstown, Pa.

My trade for stock and books the past season was satisfactory. I must say that THE FEATHER has helped along to a great extent on sale of books. I think the coming season will be good for books and stock; I believe better for ducks than for chickens. I can not get along without your paper and an advertisement in same.—EDWIN W. FLY, Chalfont, Pa.

Trade has been much larger and better than usual. Have had numerous customers and orders from advertisement in THE FEATHER. The present outlook is good for the coming season. Never had so many inquiries for stock as I am having now. I am booking a nice lot of orders for future shipment.—W. A. SMITH, Otselic Poultry Yards, Whitney's Point, N. Y.

I have had the best egg trade this season I have ever had. In fact, I have sold so close that I have not saved any chicks for myself, to speak of. Have been from one to three weeks behind with orders up to June 6th. THE FEATHER has given me good results. I think the outlook is extra good for a good season for selling stock.—W. E. SHOEMAKER, Laceyville, Pa.

Trade has been good indeed, both in fowls and dogs. THE FEATHER has brought us its full share of business. If it had not, you would have received orders to drop our advertisement. Judg-

ing from our own correspondence and trade we should say prospects were never better for disposing of all stock raised that is suitable for exhibition or breeding purposes.—F. B. ZIMMER, Gloversville, N. Y.

My trade in eggs this season has been extremely satisfactory to myself and to parties who have honored me with their orders, having received no complaint to date. Am advertising in three journals, and the bulk of my orders has come from the territory covered by THE FEATHER. Have 400 young chicks that promise to develop into extra fine fowls. Expect to kill the boys at shows this fall.—C. L. BLANTON, Falls Church, Va.

I have enjoyed a good trade this season, and it is keeping up well. The demand for "Death to Lice" remedies now extends the year around. While advertising has a more telling effect in the spring months it pays to keep it up the year around. Sometimes we say through thick and thin, and I do not know if this is far from right. We have not received as many direct orders from THE FEATHER as one might expect, but it is these best poultry journals that create the demand, and we are increasing the output through the dealers very materially right along. The outlook, as I see it, is very encouraging, the demand for stock will be as brisk as ever this fall.—D. J. LAMBERT, Apponaug, R. I.

### American White Plymouth Rock Club.

The annual election of the American White Plymouth Rock Club has been held, and the result of the election is as follows: President, E. H. George, Groveland, Mass.; vice-president, W. S. Russell, Ottumwa, Iowa; secretary and treasurer, Frank Heck, New Albany, Ind. Executive Committee: G. S. Howland, W. J. B. Williams, D. T. Heimlich, Lee F. Miller, Theo. Hewes, C. G. Hinds. Advisory Board: Oscar F. Frost, H. C. Groomes, G. J. Lovell, J. F. Crangle, W. W. Kulp, H. A. Bridge, John A. Grover, R. M. Gard, John Hughes, H. A. Kuhns, R. A. Davis, Mrs. Nellie Hawks, Henry A. Stearns, F. N. Uhrlaub, L. J. Smith.

The club now has a membership of 313, and plans will be perfected in the near future that will be the means of doubling the number before the next show season closes. Every breeder or fancier of White Plymouth Rocks should join the club immediately, and thereby get the full benefit to be derived from membership. The fee of one dollar should be sent to the secretary-treasurer, and receipt for same and membership card will be promptly forwarded. Our large sixty-four-page catalogue, illustrated with colored cuts and containing full information regarding the club and the breed, will be sent free, postage paid, to all applicants who state that they are interested in standard-bred poultry, or that they intend to take up the breeding of White Plymouth Rocks.—FRANK HECK, Secretary and Treasurer, New Albany, Ind.

### Exercise.

Fowls must have exercise when confined. To provide this, scatter the grain food in the litter on the floor and force them to keep constantly at work scratching for it. This will insure a free circulation and perfect digestion.



### Shows and Associations.

The fourth annual exhibition of the Kentucky State Poultry Association will be held January 22-27, 1900.

FRANK G. HOGAN, Sec'y,  
Louisville, Ky.

The annual exhibition of the York County Agricultural Society, will be held at York, Pa., October 2-6, 1899. Dr. Vallie Hawkins, Fawn Grove, Pa., is manager of the poultry department, and writes us that he hopes to make a first-class show of it. Geo. O. Brown, has been selected as judge of poultry. See their ad in this issue and write for premium list.

On March 1, 1899, a poultry association was organized for the purpose of holding a poultry show at Garden City, Mo., November 14-16, with thirty members enrolled and more have come in since. Officers elected were, W. A. Kimberlain, president; S. P. Byler, vice-president; T. J. Jones, secretary and manager; J. E. Brassfield, assistant secretary; Dr. S. Kauffman, G. W. Wildeore, J. S. Halcomb, W. L. Schick, A. V. Metzger, executive committee. We extend an invitation to all breeders to become members and to show with us. Membership fee, fifty cents, and names of all members printed in premium list that are received in time.

T. J. JONES, Secretary.

The next annual exhibit of the Fancier's Poultry, Pigeon, and Pet Stock Association of New Jersey will be held at Washington, (N. J.) Dec. 22-26, 1899. The one held last January was a grand success in every respect, having nearly 500 entries. We would feel very much pleased if the readers of THE FEATHER could know that the New Jersey poultrymen are striving their utmost to advance the interests of thoroughbred poultry, also to hold a show each year second to none in the States, barring our largest exhibitions. The Association is growing very rapidly, and earnestly urges all fanciers throughout New Jersey to join. The membership fee has been placed at one dollar, and one dollar yearly dues. All information will be cheerfully given by the secretary, CHARLES NIXON, 88 Taylor St. Washington, N. J.

Following is a list of the officers of the American Langshan Club for the ensuing year: Ben S. Meyers, Crawfordsville, Ind., president; F. L. Sewall, New Troy, Mich., vice-president; Ralph McAdoo, Ashland, Ohio, secretary and treasurer. Executive Committee: Geo. P. Coffin, Freeport, Me., Henry Balston, Spokane, Wash., J. Alwyn Ball, Somerville, S. C., Albert Lemen, Lincoln, Neb., Jas. Hanley, Knoxville, Iowa, Jas. E. Rodgers, Sandusky, Ohio. An honorary vice-president was elected for each State, whose duty it will be to assist the secretary in promoting the interests of the club through the poultry press and increasing the membership in his State. The rules of the club have been changed, eliminating the life membership and making the membership fee for new members one dollar and the annual dues for all members one dollar.

The officers of the American Buff Wyandotte Club are as follows: President, L. C. Piser, Shushan, N. Y.; first vice-president, C. S. Mattison, So. Shaftsbury, Vt.; secretary and treasurer, Wm. C. Klee, Rochester, N. Y.; with the following list of vice-presidents: A. P. Groves, Philadelphia, Pa.; C. E. Howell, Elmira, N. Y.; M. F.

Norris, Lexington, Ky.; James Forsyth, Owego, N. Y.; F. W. Field, Somers, Conn.; E. A. Phelps, Austinburg, O.; L. B. Willard, Greeley, Colo.; R. G. Buffinton, Fall River, Mass.; C. E. Ellsworth, Danville, Ill.; A. Miller, Alliance, O.; H. W. Boles, Deerfield, Utica, N. Y.

Every Buff Wyandotte breeder or fancier ought to become a member of the new club. Application blanks and By-laws may be obtained from the secretary for the asking. The membership fee is \$1 and the annual dues \$1.

Wm. C. KLEE, Sec'y,  
278 Meigs St. Rochester, N. Y.

The Atlanta poultry show will be held in connection with the Georgia State fair at Atlanta, Ga., October 30th to November 4th, 1899, and from present indications promises to be one of the largest ever held in the South. The management has appropriated \$1500 for premiums. Besides this the Atlanta Poultry and Pet Stock Association offers numerous special premiums, amounting to a valuation of \$500.

Alfred Bertling, who has had long experience in conducting poultry shows, has been engaged to take complete charge of this department from date, which insures first-class management in every respect. The show will be held in a large building having a floor space equal to 180 x 120 feet, and will be cooped by Spratts Patent, of New York and London. J. H. Drevenstedt and Loring Brown will be the judges. Breeders throughout the country are solicited to exhibit. Courteous treatment and prompt payment of premiums are guaranteed. For premium list and entry blanks address,

T. H. MARTIN, Sec'y,  
Prudential Building, Atlanta, Ga.

The Rose Comb Brown Leghorn Club has been started. It has been well received. In fact, exceedingly well, yet there are many who breed them who are not yet in the club. Now just a word to you. The Rose Comb Brown Leghorn is bred largely because of its great practical qualities. Many are breeding them who do not show or advertise. They keep them because they are beautiful and yet so very useful. They are wonderful layers if properly kept, and properly does not mean any great skill, plenty of good feed is about the size of it.

Then there are a large number who are breeding them and offering eggs and stock for sale. To all I say, join the club. We will tell of our useful Roses without thorns and largely increase the demand. It will pay you in dollars alone from the advertising in catalogue, and it will give you a better standing in the public's eye. Then we all will be benefited. Let us all help to roll up a larger benefit. The more join, the more can be done. Don't put it off; do it now. I can assure all I will do all I can for the good of the club, putting self aside; and I have no doubt but all the officers will do the same.—W. W. KULP, Pottstown, Pa.

### The American Plymouth Rock Club.

Editor The Feather:

I have had dozens of letters lately from breeders inquiring, "What are the objects and benefits of the club?" I would answer these questions as follows—but first let me state that what I say not only relates to this club but to the other specialty clubs as well. So fellow breeders, it matters not what variety you may breed or fancy, there is

a specialty club representing it that is working for its advancement and is worthy of your support. Join it. Send in your application to-day. Remember, that in strength there is unity, the wide world over.

The objects of this club shall be the fostering and improvement of the Plymouth Rock fowl, and the protection and advantage of the membership. To

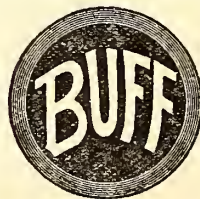
circulate among the people a thorough knowledge of the merits of these fowls, and the profit and pleasure derived from intelligent and systematic breeding. To urge the adoption of the true shape,

color, and required barring by breeders and judges alike. To offer at the leading State shows club prizes that not only attract general interest but encourage fanciers to renewed efforts to produce extra fine and nearer perfect specimens of standard, pure-bred poultry. Let our club emblem come into general use by all reliable breeders and fanciers joining the club by using the emblem on their stationery and with their advertisements. It is a guarantee of reliability, of honesty, and integrity. These are the objects. You can see the benefits, and the reputation we seek.

Now let all fanciers give these matters their attention. They should recognize the fact that the general success must help their individual prosperity. As the show season approaches it is time to act. I want to hear from all lovers of Barred Rocks. Consider this a personal invitation and write me today for circular, etc.

I note with much pleasure that the poultry press is taking sides with the specialty clubs and urging their readers to enlist. We are obliged for this, also for the promptness and space our articles have received in the past.

H. P. SCHWAB,  
Rochester, N. Y. Sec'y and Treas.



chicks. This really means a trifle of money for quality. Write, J. D. WILSON, Box C, Worcester, N. Y.

### Plymouth Rocks. Wyandottes.

Annual closing out sale at phenomenal bargains of yearling breeders. It gives vim and bounce to a breeder to own some of Wilson's world-renowned Buff Rocks. The price will make it profitable to buy now, and not wait for

## Hagerstown,

OCTOBER 10-13, 1899.

THE Poultry Exhibit at the Great Hagerstown Fair this year will excel all previous efforts at this show center. Additional new buildings have been erected to accommodate the large list of entries.

## DON'T MISS...

This great event, but write for premium list and entry blanks to

JOHN L. COST, Superintendent,  
Hagerstown, Md.



## THE BUSINESS WORLD

As Viewed From the Columns of The Feather.

### Short Tips.

Tell your story plainly.  
Never overload your ad.  
A good ad brings business.  
Solve the problem of advertising.  
Keep pegging away and you will surely succeed.

The world knows you by your name—keep it prominent.

"Fortune knocks once at every man's door"; it may be your door next.

A business man who drops out of the advertising field is soon forgotten.

The catch-line in an ad should be your strongest point, it holds the eye.

When a hen don't lay change her food; when an ad don't pay change it too.

A prominent merchant declares, "The money expended for advertising is the same as if placed on interest."

### KLONDIKES.

We publish an illustration of the "Klondikes," a new breed of chickens, owned, originated, and bred by Dr. Wm. R. Black, of Bolivar, Ohio. In addition to their unique appearance, Mr. Black says these birds possess several distinctive features that will commend them to all the different branches of poultrymen. He describes them as covered with a downy plumage that is valuable as well as beautiful; active, vigorous, and hardy foragers, but unable to fly over a two-foot fence; they will attract the notice of breeders and especially of that large class of poultry fanciers who can only indulge their love for domestic fowls upon a city or village lot.

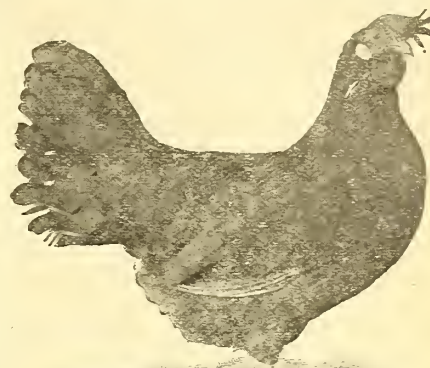
Wherever exhibited the Klondikes have been the center of attraction. They have bright red faces, wattles, and ear-lobes, without crest or beard, no down nor feathers below the knees, a bright orange-colored skin and legs, and four toes on each foot. All these things the poultry fancier will notice. Also their snow-white color, or jet-black, as the case may be. But the poultry lover will return again and again to determine whether these birds are covered with wool, with down, or with hair, and whether the plumage grows directly from the skin or through the medium of a quill. In the advertising columns of THE FEATHER you observe that the Doctor sends free to all persons inter-

ested a booklet containing a cut and description of the Klondikes, together with a history of their discovery and his method of breeding.

### "EUREKA."

Mr. L. O. Bromley, Forestville, N. Y., writes as follows: "The accompanying half-tone is an accurate reproduction of a Single Comb Brown Leghorn pullet, 'Eureka,' 94½, by McClave, owned and bred by me, which won 1st and many specials at the great Erie Poultry Association show, held January 21st to 25th, 1896. This bird is of good size, extra fine shape, and her plumage is something magnificent. She is pronounced by Leghorn breeders as a great specimen. Since the year 1888 I have bred and raised thoroughbred poultry, and in connection with the Brown Leghorns I have tried nearly all breeds, and to my own gratification there is no fowl that will pay me the dollars and cents that the Browns will. Perhaps the climate, soil, and care I give them, have something to do with my success, and if so, I would like to give the readers of THE FEATHER a short description of the way I feed.

"First of all, I live on the shores of Lake Erie. Here, of course, we have plenty of fresh air, sunshine, and a gravelly soil, which is so much thought of by successful poultry fanciers. Next, my winter coops are double boarded with paper between, lathed and plastered to the floors, which are of cement. This makes them rat-proof as well as warm. The long way of these coops faces the south, with plenty of light and sunshine. I am no lover of ventilation, especially in zero weather. My coops have fire when it is needed. This, perhaps, is why my Browns lay so well in cold weather as well as warm. I feed in the morning a mash composed of ground grains, such as wheat, oats, or corn, with one part wheat bran, scalded in boiling water and covered for one-half hour, then fed in troughs; and I feed only what they will eat up clean in three or four moments. The balance of the day I feed mostly wheat, scattered in the straw, which I usually keep six or eight inches deep on the floor. If the weather is uncommonly cold I feed corn the last thing before the fowls go to roost, and at all times I keep cabbage and beets hanging where the fowls can get at them any time. With dust-boxes,



EUREKA  
Bred and owned by  
L. O. BROMLEY FORESTVILLE, N. Y.

oyster-shells, and a good place to lay and roost, all you have then to do is keep everything clean and reap the reward."

### MICA-CRYSTAL SAND.

As auxiliary to Mica-Crystal Grit, the company has introduced this season Mica-Crystal Dusting Sand for winter use.

Enquiries from poultry raisers for a first-class dry article of sand for their fowls to indulge in their favorite pastime of dusting themselves at a time when unable to make use of the mother earth, has induced them to make a trial for the introduction of this dusting sand and at a price that all can afford the luxury of giving a winter bath to their weather-bound flocks of poultry, namely, three dollars per ton. This is a sure and cheap lice preventive.

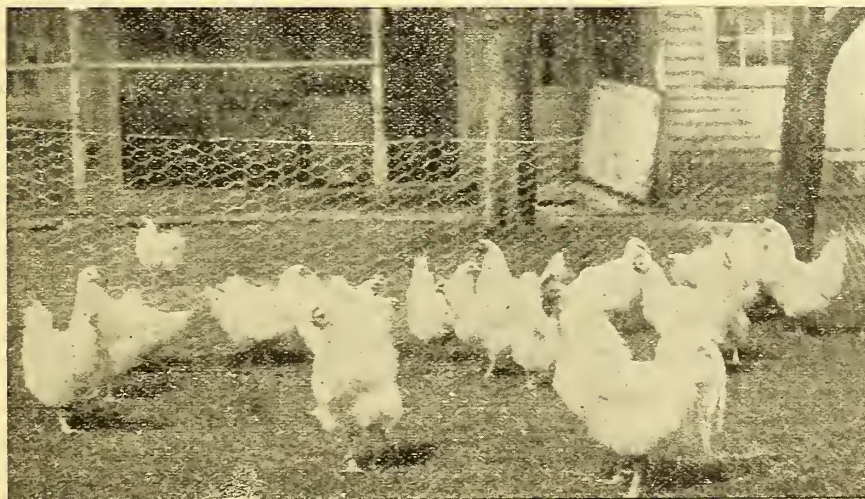
Keep your pens reasonably clean; put a large dust-bath of Mica-Crystal Dust in a sunshiny place in your pen, where the fowls can spend their leisure hours, wallowing, scratching, and having a good time generally; and if the house is kept at all comfortable, you will have no trouble with that dreadful scourge, the louse, and you will also have a goodly number of eggs in the coldest winter weather, especially if you feed them two or three times a week some preparation of beef or bone.

Hens are like human beings, thrive best when they are kept busy, and are contented and happy, and there is nothing like a Mica-Crystal-Dust bath for keeping them thus.

Put the dust several inches deep in a large shallow box and place it in the sunniest place in your pen. A sample will be sent on request. Address, Mica-Crystal Co., Concord, N. H.

### BARGAINS IN INCUBATORS.

It is well known to readers of the newspapers that prices generally have been advancing steadily here of late, including those for labor, lumber, and metals of all kinds. As a result the prices of all manufactured articles must soon follow suit, including the prices of incubators and brooders. This simply can not be helped; there is no way of getting around it. The Cyphers Incubator Co., Wayland, New York, therefore, hereby gives notice to interested persons that so soon as their new catalogue and price-list for 1899-1900 is issued, which will be about November 1st to 15th, the prices of their incubators and brooders will be greatly increased, fully twenty per cent. All



"KLONDIKES," OWNED AND BRED BY DR. WM. R. BLACK, BOLIVAR, OHIO.



who think favorably of buying a strictly first-class incubator this fall or next winter will find it much to their advantage to immediately correspond with the Cyphers Co., in order to obtain what is wanted at the present low prices. The fact is that the Cyphers Co. is in a position just now to save a limited number of customers from \$7 to \$18 net cash, depending on size of machines bought. For full particulars address The Cyphers Incubator Co., Box 6, Wayland, N. Y.

#### 20TH CENTURY CATALOGUE.

The Reliable Incubator and Brooder Co., Quincy, Ill., have issued their Fifteenth Annual Poultryman's Guide and Combined Catalogues, or 20th Century Catalogue, and have favored us with a copy of same. It is an unusually comprehensive publication of 159 pages and handsome cover. The illustrations are numerous, the make-up fine, and it contains a great deal of valuable information. Our readers should not fail to send for a copy.

#### THE CEDARVALE 400.

Mr. B. S. Smith, proprietor of Cedarvale Farm, Closter, N. J., offers for sale 400 extra fine birds in Light Brahmas, Barred Plymouth Rocks, Game Bantams, Black Aztecs, and East Indian Ducks. He says that he has sent his culls to market and that each of these birds which he has reserved is a typical specimen of its breed, sure to prove a prize-winner. Those wanting winners for the fall exhibitions should write Mr. Smith for his free circular. He guarantees perfect satisfaction.

#### FROM FINE STOCK.

Milton H. Taylor, Masontown, West Virginia, breeder of Barred Plymouth Rocks exclusively, makes a change in his classified advertisement in this issue. He offers for sale young cockerels from his giant twelve-pound cock and ten-pound hens, that are well marked, with yellow feet and beaks. Mr. Taylor has good stock. See his ad and write him.

#### A REMOVAL.

The Evans Manufacturing Co., manufacturers of the Evans Vegetable and Root Cutters, have moved their factory from Ypsilanti to Detroit, Mich. The change was made necessary owing to the increasing demand for their machines, and requiring larger quarters, they decided to locate at Detroit, to obtain better manufacturing and shipping facilities.

Our readers will please address all future correspondence to Dept. P, Detroit, Mich.

#### FACTS FOR THE FANCY.

*Editor The Feather:*

From a small advertisement in THE FEATHER during the early spring months, I sold over one hundred Cochin Bantams. The orders came from the North, South, East, and West. In fact, I sold all I had to sell and many inquiries came for stock I could not furnish. I now have a grand lot of chicks and shall advertise them this winter in your journal. I have my breeding stock of Buff and Black Cochin Bantams that I would sell very cheap. As I do not sell eggs for hatching, would you advise me to offer eggs for hatching another season? Or is the trouble of the complaints of bad results more annoying than profitable?—W. M. CONNERS, Weston, N. J.

Mr. Connors ran a small advertisement in the columns of THE FEATHER during the spring months with the above results. Such outspoken

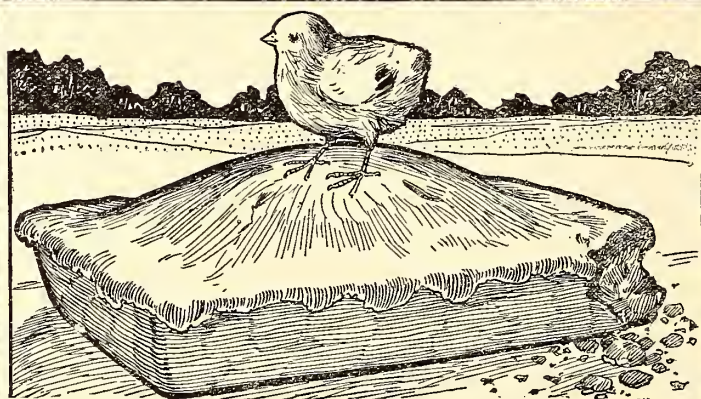
praise is a pleasure to us. As to the question of selling eggs for hatching, it is a hard one to answer. Many sell eggs with satisfaction to all sides, while others have declined to sell eggs for hatching because the say it pays better to hatch them at home and sell the chicks. We think Mr. Connors had better continue to hatch them himself, and advertise the results in THE FEATHER.—ED.

#### MANN'S CUTTERS.

It is not a question among successful poultrymen whether green cut bone is profitable to feed; that has been established long, long ago, and admits of no doubt. But it is of great importance that the Bone Cutter selected should be the best, with all the up-to-date improvements.

The F. W. Mann Co. were the originators of the bone cutter, have had the largest experience, and have wonderfully improved their opportunities. They have always led, and by surrounding themselves with the best brains, skilled workmen, and the very best material, the bone cutters they offer this season are better than ever.

We can heartily recommend this firm to our readers, assuring them that they will receive the full value for their money, and that all goods will be just as represented. They report a successful business last year, with prospects for a still greater trade this year.



## Raised on Cake for Chicks

Made from

# American Poultry Food

The best, the cheapest, the most successful chicken food ever put upon the market.

### HOW TO MAKE IT.

Thoroughly mix three pints of American Poultry Food, one pint of clover meal, a third of a teaspoonful of salt, and five teaspoonfuls of baking powder: wet with water or milk to a moderately stiff batter and thoroughly bake in a slow oven; the inside of the cake will serve as a mash, and the outside can be used in place of hard grain.

Feed little and often at start, gradually reducing the number of mash feeds until the chickens are placed permanently on three meals a day, after which mash should be fed but once a day.

### It Makes Chicks Grow Fast.

*Sold only in Sealed and Branded Sacks.*

Try a bag and be convinced.

At your feed dealers.

Practical Poultry Feeding, a little book covering a wide range of subjects of vital interest to Poultrymen, will be sent you free, post paid, on request.

Address, SCIENCE DEPARTMENT,

THE AMERICAN CEREAL CO., 351 Monadnock Bldg., CHICAGO, ILL.



## Classified Advertisements

Fully prepaid advertisements of thirty words or less inserted under this heading at the following rates:

|                  |        |
|------------------|--------|
| One time.....    | \$ .50 |
| Three times..... | 1.00   |
| Six times.....   | 2.00   |
| One year.....    | 3.50   |

### READ CAREFULLY.

Copy may be changed as often as desired, though we advise running a standard ad. when possible, in order that buyers may become acquainted with it. Length of ad. is not limited, but additional words will be charged at the rate of 1½ cents each for one insertion, or 1 cent each for each insertion when run three times or more. Initials and figures count as single words.

### PLYMOUTH ROCKS

#### BURDICK'S YEARLY SALE OF BUFF PLYMOUTH ROCKS.

Now "Old Glory" proudly waves o'er Porto Rico: The Philippines are ours, and Cuba free: Vast armies must be paid, you can meet the taxes laid.

By breeding Burdick's "Nuggets," don't you see?

My strain is well known as producing the winners at all the leading shows, Chicago, '99 included. I now offer over 100 first-class breeding hens, 30 yearling cocks, 500 young birds. Exhibition birds a specialty. Everything reasonable. Breeders, \$2 up. Write letters to H. S. BURDICK, Rome, N. Y.

**WHITE ROCKS EXCLUSIVELY.** Bred for practical and exhibition purposes. Two firsts and one second from three entries, Hagers-town, 1898. First and second hens, second cockerel, Washington, D. C., 1899. Eggs, \$1.50 per 13. Stock for sale. J. F. DEFANDORF, Garrett Park, Md.

**BARRED ROCKS EXCLUSIVELY.** (Thompson strain). Choice cockerels, pairs, trios, and pens at low prices after September 1st. My six yards of one-year-old breeders for sale now. Satisfaction guaranteed. H. E. KIPP, Red-Hook-on-Hudson, N. Y.

**THE UP-TO-DATE STRAIN of Barred Plymouth Rocks.** Catalogue for stamp. Stock for sale. Eggs, \$1 per 13. Guarantee satisfaction. If you wish high quality at a fair price, Address, J. M. PORTER, Morristown, N. J.

**BARRED PLYMOUTH ROCKS exclusively.** Young cockerels for sale, from my giant 12-lb. cock and 10-lb. hens that are well marked, yellow legs and beaks, cks. \$1 to \$3 each. MILTON H. TAYLOR, Box 55, Masontown, W. Va.

**HEAVY LAYING Barred Plymouth Rocks and White Wyandottes.** Yes, I took first and second premiums on stock, and first on largest and best 3 doz. dark brown eggs at Vermont's big show, 1899. WILLIAM D. FOSTER, HILLSIDE FARM, Woodstock, Vermont.

### LEGHORNS

**FORSYTH STRAIN S. C. BROWN LEGHORNS.** 33 prizes on 33 entries at Rochester, Hamburg, Dansville, N. Y. Old and young stock cheap, that will score into the 90's. FRANK G. RICE, 9 West Avenue, Dansville, N. Y.

**WE HAVE LAYING QUALITIES,** size, typical shape, standard color, in S. C. B. Leghorns; what more can you ask? Eggs, \$1.50 per 13; \$2.50 per 26. W. B. GERMAN, Specialist, Millville, Pa.

**50 C. PER DOZEN, \$3.50 per hundred,** Wyckoff strain. White Leghorn eggs. Circular free. S. J. BISHOP, Cheshire, Conn.

**CHOICE UP-TO-DATE STOCK of Single Comb Brown Leghorns and Silver Laced Wyandottes.** Stock for sale. Satisfaction guaranteed. Eggs, \$1 per 13. If you wish fine quality and fair treatment, address J. M. PORTER, Morristown, N. J.

**PLEASANT VIEW POULTRY YARDS.**—Rose Comb Brown Leghorns which have again been winners at all the leading shows. 1st cockerel at Madison Square Garden, 1st cockerel at Boston, 1st cockerel at Hagerstown, 1st cock at Mt. Gretna. Stock for sale at all times at reasonable prices. Eggs for hatching, \$1 per setting. Address, W. G. FRONHEISER, Prop., Pottstown, Pa. J. B. HOFFMAN, Mgr., Sanatoga, Pa.

**PLEASANT VALLEY POULTRY YARDS,** Felchville, Vt., has fine Rose and Single Comb Brown and White Leghorn hens for sale at from 50 cts. to \$1 each. Cockerels after October 1st, at same price. First come, first served.

**GRAND YOUNG STOCK of S. C. Brown Leghorns and Barred Plymouth Rocks.** Write us your wants. J. W. HEDDING, Tyrone, Pa.

### BRAHMAS

**CHESTNUT GROVE POULTRY YARDS** JOSIAS J. GEORGE, Proprietor. Yards at Jenkins P. O., Long Green Valley, Baltimore Co., Md. City address, 443 North Street, Baltimore, Md. Light Brahmas Exclusively. Early-hatched cockerels and pullets for sale. Cockerels, \$3 to \$5; trios, \$5 to \$8. Yard headed by cockerel 1st prize at Washington, 1897.

**CHOICE UP-TO-DATE STOCK of Light Brahmas,** the Duke of Morris strain. I have the cream of the late Stephen Spencer's stock in my yards. Stock for sale. Eggs, \$1 per 13. Satisfaction guaranteed. J. M. PORTER, Morristown, N. J.

### WYANDOTTES

**WYANDOTTES, GOLDEN, BUFF, AND** Partridge, McKen strain, winners at Chicago, Washington, D. C., Davenport, Iowa, Mid-Continental, Kansas and Nebraska State shows. Stock and eggs for sale. Send stamp for catalogue. W. A. DOOLITTLE, Sabetha, Kan.

**SILVER WYANDOTTES EXCLUSIVELY.**—Winners, layers, and fine table fowls. Steinmesche strain. Best matings. Satisfaction guaranteed. Write your wants to J. M. HAMBLYN, HIGHLAWN FARM, Vienna, Fairfax Co., Va.

**SILVER WYANDOTTES.**—I have for sale 15 cockerels for \$2 to \$5; 1 cock \$3; 12 females \$1 to \$3. Satisfaction guaranteed. R. G. WILLIAMS, Barre, Mass.

**BUFF WYANDOTTES EXCLUSIVELY.** Good size, shape, and the true buff color. Fertile eggs, fifteen for \$1.50; thirty for \$2.50. Fine young stock for sale. W. P. PRATT, Chatham, N. Y.

**EGGS THAT WILL HATCH** from best strains White Wyandottes and Single Comb White Leghorns, \$1.50 per 15; \$5 per 100. Satisfaction guaranteed. W. E. SHOEMAKER, Laceyville, Pa.

**HEAVY LAYING White Wyandottes, S. C. Brown Leghorns, Barred Plymouth Rocks.** Eggs, \$1 per 15; \$3 per 50; \$4 per 100. Stock at fair prices. F. E. & W. K. PEASLEE, Ferdinand, Ind.

**THEODORE HEWKE,** 311 Main St., Worcester, Mass., sells thoroughbred White Wyandottes at reasonable prices. Eggs, \$2 per setting of 15. Satisfaction guaranteed.

### MINORCAS

**BLACK MINORCAS EXCLUSIVELY,** (North-up strain). Large, vigorous, healthy birds, bred in 3 grand breeding-yards from my Washington prize winners. Stock for sale. Eggs in season. Hatch guaranteed. Member American Black Minorca Club. E. D. CROUCH, 1013 G Street S. E., Washington, D. C.

**BELMONT STRAIN BLACK MINORCAS** contains the best Minorca blood in the country. They are all standard weight or over, and are extra good in all other points, especially as layers. Eggs at \$1 per 13, and satisfaction guaranteed, or I will refund your money. Write me. O. W. TAYLOR, Tyrone, Blair Co., Pa.

**CHAMPION B. MINORCAS AND B. T. JAPANESE Bantams.** Most fashionable and prize-winning strains in the land. Stock for sale, and eggs in season. Mention this paper. H. B. GREGORY & SON, Akron, Ohio.

### LANGSHANS

**BLACK LANGSHANS and White Plymouth Rocks.** Standard stock, good layers. Stock for sale as fine as money can buy. 15 eggs for \$1.50. FRANK I. AHERN, Box 51, Laurel, Md.

### BANTAMS

**HOW IS THIS?** Washington, Hackensack, Elmira, and West Chester, Hartford, Boston, and New York, 30 entries, 34 prizes on Silver Seabright Bantams. Stock for sale. Sell no eggs. A. C. TREICHLER, M. D., Elizabethtown, Pa.

**AT WASHINGTON, D. C.,** won 15 prizes on 15 entries, on Golden and Silver Seabrights, Silkies, Bearded and Non-bearded White Polish, Buff, White, Black, Partridge, and Cuckoo Cochins, Brown Red, Red Pyle, and Birchen Game Bantams. No eggs. Stock for sale. W. W. WALLICK, York, Pa.

**COCHIN BANTAMS.**—Buff, Black, and White. If you are in want of Cochin Bantams write and see what I can do for you. ROWLAND G. BUFFINTON, Box 677, Fall River, Mass.

**BEAUTIFUL COCHIN BANTAMS**—Buff or Black. My breeding birds of past season for sale at \$3 per pair. WM. M. CONNERS, Box A, Weston, Somerset Co., New Jersey.

### GAMES

**GAMES,** Starvation prices. Irish Black Reds, Heathwoods, Irish and Mexican Grays, Tornados, Cornish Indians, and Rouen Ducks. Circular free. C. D. SMITH, Fort Plain, N. Y.

**COCKERS.** Enclose stamp for new catalogue of Games and Gaffs, containing portraits of famous pit winners, with notes on Conditioning, Heeling, Dabbing, etc. Mention The Feather. H. P. CLARKE, Indianapolis, Ind.

### HOUDANS

**HOUDANS and WHITE HOLLAND TURKEYS.** High-class stock, with free range. Houdan eggs, \$1 per 13; \$3 per 40. Turkey eggs, \$2 per 11. G. A. HOBART, Chittenango, N. Y.

### INDIAN GAMES

**CORNISH INDIAN GAMES,** Carpenter's prize-winning strain. The Gentleman's Fowl. Stock and eggs for sale. Also breed first-class Black Minorcas, Barred Plymouth Rocks and Muscovy Ducks. H. M. CARPENTER, Sing Sing, N. Y.

### ORNAMENTAL

**RING NECK MONGOLIAN OR ENGLISH Pheasants.** Birds and eggs for sale. Eggs, \$2 per 15; can hatch under chicken hens. MARTIN DIETRICH, Box 493, Fulton, N. Y.

### RABBITS

**C HAMMERSCHMIDT,** 1849 Seneca Street, Buffalo, N. Y., headquarters for large Belgian Hares, bred up to standard in size, color, and weight. Old and young for sale. Also breeding does (in young if desired). Guarantee to please customers.

### DOGS

**COLLIE DOGS,** one to two years old, now ready to work, prices \$8 to \$10 each. "Beauties," grown up out from their puppyhood. W. L. SWETT, St. Johnsbury, Vt.

### FANCY PIGEONS

**G A. FICK,** 1300 N. Washington Street, Baltimore, Md., breeder of prize winners, Magpies and Swallows in all colors. Prices reasonable considering quality of stock.

**FOR SALE, EXHIBITION BIRDS** in Pouters, Carriers, Blondinettes, Satinets, Silverettes, Turbits, Frillbacks, Swallows, Snells, Archangels, Dragons, Tumblers, Moorcaps, Magpies, Owls, Nuns, Bruner Pouters, and Black Baldhead Tumblers. Satisfaction guaranteed. J. H. MEHRING, Littlestown, Pa.

**FOR SALE CHEAP.**—25 pairs old breeding Homers, Tumblers, Fantails, Magpies, Pouters, Jacobins. Young birds of all kinds. My prices are right. LARRY F. GOLDY, East Third Street, Williamsport, Pa.

**IMPORTED BELGIAN HOMERS** and best American stock in mated pairs and G-banded youngsters, for sale at a very low price; also all varieties Long Muffed Tumblers, Red, Yellow, and Mottled Clean-legged Tumblers, good color and performers. All colors Wing Turbits, Magpies, and Parlor Tumblers. DAVID J. RUTH, Cor. So. Main Ave. & Oxford St., Scranton, Pa.

**FOR SALE.**—50 Blk., Red, and Mottled Booted and Smooth-Leg Tumblers, 75c. a pair, grand performers. 50 pairs Homers, 75c. a pair; and all kinds of Fancy Pigeons, cheap. Send stamp for further particulars. SOMERSET PIGEON LOFTS, Somerset, Mass.

**100 WHITE, BLUE, RED, YELLOW, AND** Black Fantails, \$1 each. White Homers, best strains, \$1.50 per pair up. White, Black, and Blue Dragons, (direct Parker strain). 1 White Barb hen, \$1. Stamp for circular. 15th successful breeding season. Also Light Brahmas. RICHFIELD PIGEON LOFTS, N. S. GRAY-BILL, Prop., Richfield, Pa.

**DO YOU WANT SOME FANCY PIGEONS,** from prize-winning and pedigree stock at a very low price? Red and Black Jacobins, Red, Black, and Blue Magpies a specialty. Try me. T. F. ADAMS, Binghamton, N. Y.



## HOMING PIGEONS

**ROYAL RED SEAL LOFTS**, 1357 Wilson Ave., Cleveland, Ohio; breeder, importer, and flyer of the speediest strains of Homing Pigeons exclusively. My annual catalogue, containing pedigrees of 30 pairs of choice breeders; mailed on application. Stamp if convenient. A grand lot of record breeders for sale.

**HOMING PIGEONS**.—I have a number of fine cocks in Blue and Black (Chequer and several pairs of mated birds (excellent breeders) that I will dispose of at reasonable prices. The above birds are pure-blooded Homers, and bred from reliable stock. Also a limited number of youngsters bred from the same strain. G. R. BAYLE, 1643 Race St., Philadelphia, Pa.

**HOMING PIGEONS**, strong flying stock. Large healthy pairs mated for breeding at \$1 per pair. Satisfaction guaranteed. LOUIS E. NEECE, Box 246, Williamsport, Pa.

**VERDEMONT HOMING LOFTS**.—A choice lot of speedy and reliable trained Homers for sale at \$1 per pair while they last. Bred from record birds from a number of the most noted strains. Pedigrees given and satisfaction guaranteed. C. E. BIRELY, Ladiesburg, Md.

**HOMING PIGEONS** for sale. Write for prices, or enclose stamp for circular. F. C. BEACH, Plain City, Ohio.

**MEADOW VIEW HOMING LOFT**. A choice lot of reliable Homers for sale at reasonable prices. Bred from a number of the most noted strains. Pedigrees given. Write for particulars. J. A. HAHN, JR., Prop., Ladiesburg, Md.

## MISCELLANEOUS

**AS GOOD AS THE BEST**, 13 for \$1.50. Bred from prize-winning Buff and Barred Rocks, Buff and White Wyandottes, Buff, Brown, and White Leghorns. S. B. MASON'S, Maytown, Pa.

**SHERWOODS**—the Ideal Fowl—for fancier, farmer, or market, the hardest and best general purpose fowl ever introduced. My stock is from originator of breed, therefore pure. Prize winners at Hamilton. Eggs in season. Circular free. DR. CHARLES B. TURNER, Snickersville, Va.

**DR. H. D. KNIGHT**, Lancaster, Pa., breeder of (Wyckoff strain) S. C. W. Leghorns and choice B. P. Rocks. Eggs in season. Prices reasonable.

**FIVE HUNDRED BIRDS FOR SALE** cheap, young and old. 100 White Plymouth Rocks, 100 Light Brahmas, 100 Single Comb White Leghorns, 50 S. S. Hamburgs, 50 White Crested Black Polish, 50 White Faced Black Spanish, 50 Black-Tailed Japanese Bantams. Write for prices at once. F. L. LANDON, Elmira, N. Y.

**WAR ON FIRST-PRIZE EGGS**. BUFF POULTRY FARM, Norristown, Pa. Buff Cochins, Mrs. Kimmel and Oaklin's stock only. Eggs for setting of 13 \$2.50. Buff P. Rocks, Buff Wyandottes, Buff Leghorns, Buff Minorcas \$1.00 per 13. A few Buff Cochins cockerels for first-prize hen at Washington, D. C., from \$5 to \$8 each. Express or P. O. Orders to E. S. GIRARD, Box 162 Norristown, Pa.

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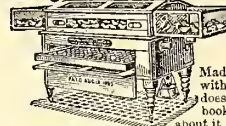


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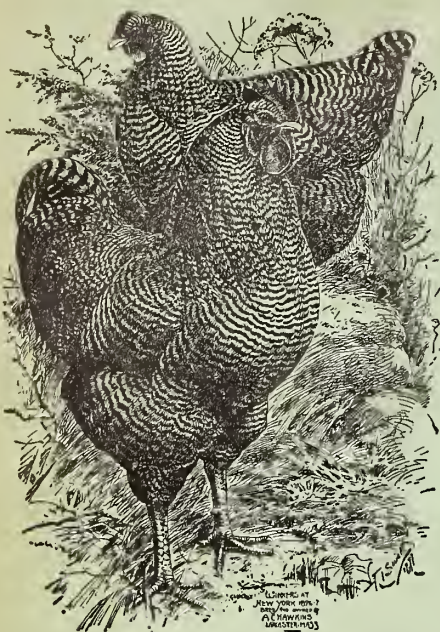
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